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中国唇形科植物志資料(二)

吳征鎰
李錫文　宣淑潔　黃詠琴
(中国科学院植物研究所昆明分所)

MATERIAE AD FLORAM LABIATARUM SINENSIUM(2)

WU CHENG-YIH
LI HSI-WEN, HSUAN SHWU-JYE, HUANG YONG-CHIN
(*Filii Kunmingensis Instituti Botanici Academiae Sinicae*)

兔唇花属——**Lagochilus** Bunge

1. **阿勒泰兔唇花**　新种　图版四十一,图 1—6

Lagochilus altaicus C. Y. Wu et Hsuan, sp. nov.　Pl. XLI, f. 1—6

(Sect. *Inermes* Fisch. et Mey. Ser. *Brevidentati* Knorr.)

L. *acutilobo* (Ledeb.) Fisch. et Mey. affinis a quo differt caule superne pilis obtecto, lobis foliorum apice mucronatis vel rotundatis haud aristatis, lobis labii superioris apice truncatis.

Planta perennis. Caulis ad 24 cm altus, quadrangularis, inferne glaber, superne parcissime hirsutus. Folia triangularia, 1—1.5 cm longa, 0.5—2 cm lata, pinnati-partita, lobis oblongis, 2—7 mm longis, apice mucronatis vel rotundatis haud aristatis, papyracea, utrinque glandulis pellucidis obtecta, glabra, superiora subsessilia, inferiora basi in petiolos ad 2.5 cm longos alatos decurrentia. Verticillastri circa 6-flori; bracteae tenui-aciculares, ad 7 mm longae, glabrae. Calyx campanulatus, circa 1 cm longus et 6 mm latus, glaber, dentibus subaequilongis, triangularibus, circa 2 mm longis apice aristatis, aristis circa 1.5—2 mm longis. Corolla rosea, calyce 2.5-plo longior, extus albo-villosa, intus infra medium tubi annulo piloso praedita, labio superiore recto 1.7—1.9 cm longo 0.7 cm lato 2-partito, lobis apice subtruncatis, labio inferiore leviter breviore 1—1.1 cm longo, intus puberulo, trilobato, lobo medio majore obcordato 4 mm longo 9 mm lato, lobis lateralibus triangularibus circa 3 mm longis. Stamina brevia, antica circa 11 mm longa, postica 8—9 mm longa, filamentis complanatis basi puberulis. Stylus gracilis glaberque, apice aequaliter bifidus. Discus annulatus, 4-lobatus. Ovarium glabrum. Nuculae compresso-obconicae, 2.5 mm longae, 1.7 mm in diametro, apice truncatae. Floret in Julio. Fructificat in Septembri.

Sinkiang: Altai, Jul. 1955, Academia Agriculturae Sinkiangensis (八一农学院) *22363* (Typus HP); Mons

Altai (阿尔泰山), in itinere a Balbagai (巴尔巴盖) ad Bultsing (布尔津), 540 m s.m., Sept. 11, 1956, R. C. Ching (秦仁昌) *2985*.

本种与 *L. acutilobus* (Ledeb.) Fisch. et Mey. 相近,但茎上部有毛,叶裂片先端有小突尖或圆形,从不为刺尖,花冠上唇裂片先端截形与之不同。

2. **短刺兔唇花** 新种 图版四十一,图 7—13

Lagochilus brachyacanthus C. Y. Wu et Hsuan, sp. nov. Pl. XLI, f. 7—13

(Sect. *Inermes* Fisch. et Mey. Ser. *Kschtutenses* Knorr.)

Proximus *L. pungenti* Schrenk, sed bracteis brevioribus, tubo calycis sparse septato-setoso, corolla indumento atque glandulis copiosis obtecta differt.

Planta perennis. Caulis circa 16 cm altus, ramosus, obtuse quadrangularis, sparse patenterque septato-strigosus. Folia cuneata, 12—20 mm longa, 7—12 mm lata, trilobata, lobis foliorum inferiorum 2—3-vel pluri-lobulatis, lobulis triangularibus apice ut lobus brevispinis, chartacea, utrinque glabra sed glandulis furfuraceis obtecta, basi in petiolos alatos 5—8 mm longos decurrentia, superiora subsessilia. Verticillastri 4—6-flori; bracteae aciculares, 4—7 mm longae, margine sparse septato-setosae. Calyx anguste campanulatus, 13 mm longus, 6.5 mm latus, tubo sparse septato-setoso, dentibus triangularibus spinula inclusa 4—5 mm longis, dente posteriore longiore. Corolla calyce duplo longior, tubo calyci aequilongo, labio superiore recto extus sparse villoso et dense glanduloso apice in lobos duos 5 mm longos apice rotundatos truncatosve ad leviter emarginatos, labio inferiore extus sparse hispidulo et dense glanduloso apice trilobato, lobo medio majore circa 2.5 mm longo et 6.5 mm lato in lobulos duo triangulares fisso, lobis lateralibus minoribus triangularibusque. Stamina antica sinum labi superi vix excedentia, postica breviora. Discus annulatus. Ovarium glabrum.

Sinkiang: loc. ign. (产地不明), coll. ign. (采集人不明) *276* (Typus HP).

本种与銳利兔唇花 *L. pungens* Schrenk 相近,但苞片短,萼筒疏被具隔膜的刚毛,花冠除毛被外尙有密布的小腺点与之相异。

3. **毛节兔唇花** 新种 图版四十二,图 1—5

Lagochilus lanatonodus C. Y. Wu et Hsuan, sp. nov. Pl. XLII, f. 1—5

(Sect. *Spinosa* Fisch. et Mey. Ser. *Diacanthophylli* Knorr.)

Proximus *L. leiacantho* Fisch. et Mey., sed verticillastris 2-floris, nodis caulium plus minusve tumidis, tomentosis, inferioribus pilis lanosis vaginis persistentibus tegentibus obtectis differt.

Planta perennis, radice lignosa crassa verticali. Caulis 15—25 cm altus, ramosus, lignosus, quadrangularis, hispidulus; nodis plus minusve tumidis, tomentosis, inferioribus pilis lanosis vaginis persistentibus tegentibus obtectis. Folia cuneato-rhomboidea, 10—16 mm longa, 7—14 mm lata, apice trilobata, lobis in lobulos 3—5 apice ut lobus aristatos fissis, basi cuneata, coriacea, supra olivacea, glabra vel sparsissime hispidula, subtus pallidiora, puberula vel utrinque glabra. Verticillastri 2-flori; bracteae aciculares, 4—12 mm

longae, glabrae. Calyx tubulari-campanulatus, 18 mm longus, 8 mm latus, dentibus tubo calycis paulum brevioribus vel eum aequantibus raro leviter superantibus, anguste oblongo-lanceolatis, apice obtusis, breviter aristatis, percoriaceis, transversali-venulatis. Corolla rosea, circa 3 cm longa, extus puberula, intus basi puberula et annulo piloso ornata, labio superiore recto, circa 2 cm longo et 7 mm lato, extus albo-villoso, apice bilobato, labio inferiore circa 1.7 cm longo et 9 mm lato 3-partito, lobo medio obcordato apice profunde emarginato circa 8 mm longo et lato, lobis lateralibus lanceolatis circa 4 mm longis 2 mm latis apice bilobulatis. Stamina supra medium tubi corollae inserta, filamentis complanatis margine membranaceis pubescentibus, anticis 18 mm longis, posticis 10 mm longis. Stylus tenuis, utrinque leviter crassus, apice subinaequliter bifidus. Discus angustus. Ovarium tuberculatum. Nuculae compresso-obconicae, 4 mm longae, 2 mm latae, atro-brunneae, furfuraceae, apice truncatae. Floret in Junio-Augusto.

Sinkiang: Urumchi-Yanchi (乌鲁木齐至焉耆), 2300 m s.m., Jul. 22, 1958, A. R. Li (李安仁) et C. N. Chu (朱家楠) *6216* (Typus HP); Turfan (吐鲁番), in itinere a San-shan-shi (三山石) ad Shi-yao-tse (石窑子), 2400 m s.m., A. R. Li et C. N. Chu *5662*; Sha-wan (沙湾), Tien-shan (天山), Kiang-guo (江沟), 1150 m s.m., Oct. 2, 1956, R. C. Ching (秦仁昌) *3710*; Ho-shuo (和硕), 1825 m s.m., Aug. 3, 1958, A. R. Li et C. N. Chu *6950*; Liaudon-tou-si (了墩拖西), regione montium, Jul. 2, 1931, T. N. Liou (刘慎谔) *2522*; Urumchi (乌鲁木齐), Nan-shan (南山), 1500 m s.m., Aug. 1, 1931, T. N. Liou *3092*; loc. ign. (产地不明), Academia Agriculturae Sinkiangensis (八一农学院) *774*; Urumchi, 820 m s.m., Jul. 1955, Academia Agriculturae Sinkiangensis *22367*; in declivibus borealibus montis Tien-shan (天山), 1100 m s.m., Jul. 23, 1957, K. C. Kuan (关克俭) *1791*; in declivibus borealibus montis Tien-Shan, Sept. 21, 1959, Sinkiang Expeditio (新疆综考队) *Ak. -2*.

本种与光刺兔唇花 *L. leiacanthus* Fisch. et Mey. 相近，但輪繖花序具 2 花，茎节多少膨大且被絨毛，下部节上被为宿存的叶鞘包被的白色綿毛，与之相区别。

4. **大花兔唇花**　新种　图版四十二，图 6—7

Lagochilus grandiflorus C. Y. Wu et Hsuan, sp. nov.　Pl. XLII, f. 6—7

(Sect. *Spinosa* Fisch. et Mey. Ser. *Inaequidentati* Knorr.)

Proximus *L. diacanthophyllo* (Pall.) Benth., sed foliis bipinnati-partitis, corollae labio superiore apice 4-lobulatis differt.

Planta perennis, radice lignosa. Caulis 10—30 cm altus, e basi ramosus, plus minusve diffusus, in sicco albus, obtuse quadrangularis, hispidulus. Folia late ovata, coriacea, supra sparse hispidula et glandulis obtecta, subtus puberula et glandulis pluribus conspicuis obtecta, 2.8—4 cm longa, 2.2—3.2 cm lata, bipinnati-partita, lobis circa 2.2—4.2 mm latis apice rotundatis vel acutis breviter spinuliferis. Verticillastri circa 6-flori; bracteae et bracteolae luteo-albae, aciculares, 2—15 mm longae, margine sparse albo-pilosae, glabrae. Calyx anguste tubulari-campanulatus, circa 2.3 cm longus et 7 mm latus, extus dense pubescens sed ad dentes glandulosus, intus ad tubum glaber ceterum puberulus, dentibus oblongis 9—14 mm longis 3.5—4.5 mm latis coriaceis apice acutis et spinosus. Corolla rosea 4.6 cm longa extus albo-villosa intus annulo piloso ornata, labio superiore circa 3 cm longo 1.1 cm lato intus glabro apice bilobato, lobis iterum bilobulatis, labio inferiore

breviore obovato-cuneato 2.5 cm longo 1.2 cm lato trilobato, lobo medio majore circa 1.1 cm longo ad 5 mm lato apice profunde emarginato, lobis lateralibus ovatis 5 mm longis circa 4 mm latis apice profunde emarginatis. Stamina antica 2.8 cm longa, postica 2.3 cm longa, filamentis complanatis margine membranaceis hispidulis. Stylus filiformis, glaber, apice subaequaliter bifidus. Discus cupuliformis. Ovarium glabrum. Floret in Junio.

Sinkiang: Teksen (特克斯), Jun. 17, 1956, Academia Agriculturae Sinkiangensis (八一农学院) *26710* (Typus HP).

本种与二刺叶兔唇花 *L. diacanthophyllus* (Pall.) Benth. 相近，但叶二回羽状深裂，花冠上唇先端具 4 裂与之相异。

5. 斜喉兔唇花 新种 图版四十二，图 8—9

Lagochilus obliquus C. Y. Wu et Hsuan, sp. nov. Pl. XLII, f. 8—9

(Sect. *Spinosa* Fisch. et Mey. Ser. *Inaequidentati* Knorr.)

Proximus *L. leiacantho* Fisch. et Mey., sed foliis pinnatipartitis, subtus glandulis pellucidis dispersis; calycis fauce obliqua, dentibus brevioribus; corollae labio superiore bilobato, lobis ovatis apice 2-dentatis differt.

Planta perennis, radice crassa lignosa. Caulis 15—25 cm altus, quadrangularis, albus, basi lignosus, e parte inferiore ramosus, superne glaber, inferne sparissime villosus. Folia late rhomboidea, chartacea, supra olivacea sparse hispidula, subtus glandulis transparentibus albis dense dispersa, 2—3.5 cm longa, 1.5—2.5 cm lata, pinnatipartita, lobis inferioribus trilobulatis lobulis rotundis vel oblongis apice ut lobus obtusis aristatis, basi attenuata decurrentia, superiora subsessilia, inferiora petiolata, petiolis ad 2 mm longis anguste alatisque. Verticillastri circa 6-flori, floribus fertibilus saepius 4; bracteae aciculares vel subulatae, 4—16 mm longae, albo-virides, glabrae. Calyx campanulatus, circa 17 mm longus et 7 mm latus, glaber, dentibus 5 oblongis, 2 anticis circa 5 mm longis, 3 posticis circa 7—8 mm longis, apice obtusis mucronatis, margine breve ciliatis. Corolla lividia, calyce circa duplo longiora, extus praeter basin glabra ceterum dense sed ad partem inferiorem tubi denisus puberula, labio superiore recto circa 2 cm longo margine villoso intus glabro apice bilobato, lobis ovatis apice 2-dentatis, labio inferiore 1.6 cm longo trilobato, lobo medio obcordato circa 6 mm longo 9 mm lato, lobis lateralibus triangularibus circa 4 mm longis 2.5 mm latis glabris apice obtusis. Stamina antica 1.6 cm longa, postica 1.4 cm longa, filamentis complanatis margine membranaceis. Stylus glaber, apice aequaliter bifidus. Discus annulatus, margine undulatus. Ovarium apice albo-pustulatum. Floret in Julio-Augusto.

Sinkiang: Da-ban-shan-kou (达坂山口), 2000 m s.m., Aug. 8, 1956, R. C. Ching (秦仁昌) *1581* (Typus HP); Ching-ho (清河), inter Er-tai (二台) et Ching-ho (清河) (Gikultai, 缀库尔台), Jul. 29, 1956, R. C. Ching *750*; Tien-shan (天山), inter Lao-ba (老坝) et Miao-er-guo (庙儿沟), Aug. 3, 1957, K. C. Kuan (关克俭) *2367*; Tuo-li (托里), Aug. 4, 1957, K. C. Kuan *2485*; loc. ign. (产地不明), Academia Agriculturae Sinkiangensis (八一农学院) *2070*.

本种与光刺兔唇花 *L. leiacanthus* Fisch. et Mey. 相近，但叶为羽状深裂，下面有透明腺点，花萼喉部倾斜且齿较短，花冠上唇 2 裂，裂片卵圆形先端具 2 齿，与之相区别。

6. **仁昌兔唇花** 新种 图版四十二，图 10—11

Lagochilus chingii C. Y. Wu et Hsuan, sp. nov. Pl. XLII, f. 10—11

(Sect. *Spinosa* Fisch. et Mey. Ser. *Inaequidentati* Knorr.)

Species *L. obliquo* C. Y. Wu et Hsuan affinis sed corollis extus pilosis, calycibus 1.5-plo longioribus, labiis superioribus apice 4-dentatis differt..

Planta perennis; caule 14—24 cm alto, quadrangulari, albo, inferne sparse patenterque hirsuto, superne hispidulo. Folia late rhomboidea, 1.5—2 cm longa et lata, supra hispidula, subtus glandulis transparentibus obtecta, subsessilia, bipinnatitripartita, lobis oblongis vel obovatis apice spiniferis lobulatis. Verticillastri 4-flori; bracteae subulatae ad aciculares, 4—10 mm longae. Calyx tubulari-campanulatus, circa 17 mm longus, 4 mm latus, praeter dentes breve ciliatos subglaber, dentibus oblongis apice obtusis mucronatis valde inaequilongis, 2 anticis circa 7 mm longis 2.5—3 mm latis, 3 posticis 6.5—8.5 mm longis 2—3 mm latis. Corolla calyce circa 1.5-plo longiora, extus glandulis transparentibus dispersa pilosaque, intus sparse puberula, ad basin annulo piloso ornata, labio superiore recto circa 13 mm longo margine villoso apice 4-dentato, labio inferiore paullo breviore trilobato, lobo medio obcordato 4 mm longo ad 8 mm lato apice profunde emarginato, lobis lateralibus anguste oblongis apice obtusis. Stamina antica circa 11 mm longa, postica breviora circa 7 mm longa, filamentis complanatis margine membranaceis glabris, antheris paullo pilosis. Stylus crassior, staminibus posticis aequilongus, glaber, apice subaequaliter bifidus. Discus obscure cupuliformis. Ovarium apice truncatum, albo-pustulatum. Nuculae ignotae. Floret in Augusto.

Sinkiang: Fu-yun (富蕴), juxta Wu-ka-gou (五卡沟), 1100 m s.m., Aug. 9, 1956, R. C. Ching (秦仁昌) *1753* (Typus HP).

本种与斜喉兔唇花 *L. obliquus* C. Y. Wu et Hsuan 相近，但花冠外被疏柔毛，其长仅超过萼长一半，上唇先端 4 齿缺，与之相区别。

7. **宽齿兔唇花** 新种 图版四十一，图 14—16

Lagochilus iliensis C. Y. Wu et Hsuan, sp. nov. Pl. XLI, f. 14—16

(Sect. *Spinosa* Fisch. et Mey. Ser. *Macrodonti* Knorr.)

Species *L. macrodonto* Knorr. affinis sed caule solum hispidulo, foliis rhomboideo-triangularibus minoribus, calycis dentibus brevioribus et tubo extus patenter septato-villoso differt.

Planta perennis. Caulis circa 30 cm altus, e basi ramosus, obtuse quadrangularis, albus, sparse hispidulus, inferne subglaber. Folia rhomboideo-triangularia, 2.2—3 cm longa, 2.1—3 cm lata, coriacea, supra sparse hispidula, subtus densius hispidula et glandulis copiose dispersa, basi in petiolos alatos 2—4 mm longos subito attenuata, pinnatipartita, plerumque lobis 2 infimis iterum tripartitis vel pinnatipartitis, lobulis ut lobi ovatis ad

oblongis apice rotundatis spiniferis. Verticillastri ?-flori; bracteae subulatae, horizontaliter patentes vel leviter declinatae, conspicue costatae, 8—15 mm longae, superiores patenter septato-hispidae, inferiores demum glabrescentes. Calyx anguste campanulatus, circa 1.9 cm longus et 7 mm in diametro, dentibus late ovatis circa 6 mm longis 4.5—5.5 mm latis conspicue reticulatis apice rotundatis brevi-spinuliferis, tubo pilis densius patenterque septato-villosis et hispidulis intermixtis tecto. Corolla et organi genitales ignota.

Sinkiang: Ili (伊犁), Tsaibutsar (察布查尔), 1900 m s.m., Academia Agriculturae Sinkiangensis *100* (Typus HP).

本种与产于苏联的大齿兔唇花 *L. macrodontus* Knorr. 相近，但茎仅被短硬毛，叶菱状三角形且較小，萼齿較短及萼筒外被平展具节长柔毛与之不同。

斜萼草属——**Loxocalyx** Hemsl.

1. **斜萼草十脉变种** 新变种

Loxocalyx urticifolius Hemsl. var. **decemnervius** C. Y. Wu et H. W. Li, var. nov.

A var. *urticifolio* recedit caulibus et ramulis sparse sed ad nodos densius retrorsumque septato-piloso-hispidis, verticillastris paucifloris (2—6-floris), calycibus 10-nerviis nervis conspicue septato-hispidis intermediis omnino conspicuis, dentibus duobus anticis altius connatis valde elongatis, tribus posticis semper inaequalibus (dente medio valde elongato), floribus majoribus 1.5—3 cm longis, labii inferioris lobo medio obcordato.

Shensi: Tai-pai-shan (太白山), 1500 m s.m., Aug. 12, 1933, T. P. Wang (王作宾) *1909*; Hu-hsien (鄠县), Aug. 27, 1951, B. S. Guo (郭本兆) *759*; Fa-ping (佛坪), 1500 m s.m., Jul. 20, 1952, K. T. Fu (傅坤俊) *5108*; ibidem, 2300 m s.m., Jul. 21, 1952, B. S. Guo *1757* (Typus HP).

与斜萼草 *L. urticifolius* Hemsl. var. *urticifolius* 区别在于茎、幼枝疏生但在节上密生倒向具节疏柔毛状糙硬毛，輪繖花序少花（2—6 花），花萼 10 脉，脉上明显被具节糙硬毛，居間脉均明显，前 2 齿高度靠合且极增大，后 3 齿常不等大，中央 1 齿十分伸长，花大，长 1.5—3 厘米，下唇中裂片倒心脏形。

水苏属——**Stachys** Linn.

1. **直花水苏** 新种

Stachys strictiflora C. Y. Wu, sp. nov.

(Sect. *Eriostachys* Benth. Ser. *Setiferae* Knorr.)

1a. **直花水苏**

var. **strictiflora**

Species affinis *S. sericeae* Wall. et *S. melissaefoliae* Benth., a hac herba stricta pauce vel non ramosa, foliis triangulariter ovato-cordatis, calycis dentibus ovato-lanceolatis spinescentibus reflexis, ab illa caule retrorsum piloso, foliis triangulariter ovato-cordatis, verticillastris 2—6-floris diagnoscitur.

Herba perennis stricta, rhizomate non crasso repente e nodis radicibus fibrosis radi-

cante. Caulis erectus, 30—60 cm altus, quadrangularis, quadrisulcatus, retrorsum pilosus sed superne pilis glanduloso-pubescentibus intermixtus, gracilis, pauce ramosus vel eramosus. Folia caulina triangulariter ovatocordata, 3—5 cm longa, 2—3 cm lata, apice acuta, basi cordata, margine regulariter crenata, supra viridia rugulosa dense sericeo-pilosula, subtus glauco-viridia dense pilosa, nervis lateralibus 4—5-jugis supra leviter impressis subtus leviter prominentibus, petiolis 0.7—1.5 cm longis complanatis dense pilosis ventre leviter sulcatis; folia floralia diminuta, triangulariter oblonga vel ovata, apice acuta, basi leviter cordata, truncata vel subrotundata, brevipetiolata vel subsessilia, eodem indumento quo foliorum caulinorum obtecta. Verticillastri 2—6-flori, remoti, apice caulis approximati, bracteis paucis linearibus brevibus circa 2 mm longis dense pilosis suffulti. Pedicelli perbreves vel subsessiles, vix 1 mm longi. Calyx tempore florendi cum dentibus 7 mm longus, campanulatus, extus pilosus et glandulosus semper ad dentes glanduloso-pubescens, intus ad dentes sparse pilosulus ceterum glaber, nervis 10 intermediis inconspicuis, dentibus 5 subaequalibus ovato-lanceolatis circa 3 mm longis apice aristatis conspicue reflexis. Corolla rosea circa 1.2 cm longa, tubo 9 mm longo extus sparse pubescente antice supra annulum saccato-dilatato, intus ad 1/3 basin plus minusve conspicue oblique pubescenti-annulato, limbo bilabiato, labio superiore recto ovato circa 3.5 mm longo integro, labio inferiore patente 4 mm longo 5 mm lato trilobato, lobo medio majore trapezoideo 3 mm lato apice emarginato, lobis lateralibus ovatis 1.5 mm latis. Stamina 4, antica paullo longiora, omnia circa ad medium labii superioris adscendentia, e tubo corollae paullo exserta, filamentis filiformibus pubescentibus apice leviter dilatatis, antheris ovoideis 2-locularibus, loculis divaricatis. Discus obliquus, cupuliformis, lobis anticis paullo elongatis. Stylus filiformis, stamina paullo superans, apice subaequaliter bifidus, lobis subulatis. Ovarium intense brunneum, glabrum. Floret in Junio-Julio.

Yunnan: Feng-ching (凤庆) (Shun-ning, 顺宁), 2100 m s.m., Jun. 7, 1938, T. T. Yü (俞德浚) *16578* (Typus HP).

本种近于絲毛水苏 *S. sericea* Wall. 及多枝水苏 *S. melissaefolia* Benth., 与后者区别在于劲直草本，少或不分枝，叶三角状卵圆心脏形，萼齿卵圓状披針形，微刺尖，反折；与前者区别在于茎有倒向疏柔毛，叶三角状卵圓心脏形，輪繖花序 2—6 花。

1b. **直花水苏宽齿变种**　新变种

Stachys strictiflora C. Y. Wu var. **latidens** C. Y. Wu et H. W. Li, var. nov.

A var. *strictiflora* recedit calycis dentibus ovato-triangularibus apice acutiusculis suberectis, floribus majoribus ultra 1.5 cm longis, tota planta densissime pilosa.

Yunnan: Cheng-kang (镇康), 3400 m s.m., Jul. 24, 1938, T. T. Yü (俞德浚) *16957* (Typus HP); ibidem, 2500 m s.m., Jul. 26, 1938, T. T. Yü *16986*.

与直花水苏 *S. strictiflora* C. Y. Wu var. *strictiflora* 的区别在于：萼齿卵圓状三角形，先端微尖，近于直伸，花較大，长在 1.5 厘米以上，植株各部被极密柔毛。

2. **长圓叶水苏細柄变种**　香草（广西綏淥）

Stachys oblongifolia Benth. var. **leptopoda** (Hayata) C. Y. Wu, comb. nov.

Stachys leptopoda Hayata Icon. Pl. Formos. 8:93. 1919.

St. oblongifolia Benth. f. *leptopoda* (Hayata) Kudo Labiat. Sino-Japon. Prodr. in Mem. Fac. Sci. Agr. Taihoku Univ. 2:188. 1929.

福建： 产地?，林鎔 *2062*；永安，林鎔 *2818*。

广东： 肇庆，鼎湖山，Buswell, Levine 及杜庚平 *254*, *7247*，侯宽昭 *74220*。

广西： 绥渌，曾怀德 *21912*；明江，苏宏汉 *69172*；阳朔，单人骅 *904*；柳城，陈文 *82311*，陈立卿 *91467*。

四川： 开县，方文培 *10240*。

云南： 富宁，王启无 *88384*, *88593*；文山，采集人及号码不详。

模式标本采自台湾（T. Herb. no. *23003*, Hab. Ako, T. Kawakami, 1906年4月），識別点是：茎較纤細；叶較小，几全具柄；花冠較小，略长过萼，冠筒內藏；花萼倒圓錐状钟形。

水苏组草石蚕系 新系

Sect. **Stachys** Ser. **Sieboldianae** C. Y. Wu, ser. nov.

Rhizoma crassum, succulens. Folia ovata, oblongo-ovata vel cordata.

Typus seriei: *S. sieboldi* Miq. (草石蚕)

Species 7: *S. sieboldi* Miq., *S. adulterina* Hemsl. (少毛草石蚕), *S. arrecta* Bailey (直立水苏), *S. geobombycis* C. Y. Wu (地蚕), *S. xanthantha* C. Y. Wu (黄花水苏), *S. taliensis* C. Y. Wu (大理水苏) et *S. pseudophlomis* C. Y. Wu (狭齿水苏)。

根茎肥大肉质，叶卵圓形，长圓状卵圓形或心脏形。

3. **草石蚕近无毛变种** 新变种

Stachys sieboldi Miq. var. **glabrescens** C. Y. Wu, var. nov.

A var. *sieboldi* recedit plantae partibus omnibus glabrescentibus.

Hupeh: Tze-kwei (秭归), Sien-nu-fung (仙女峯), 2400 m s.m., T. P. Wang (王作宾) *11803* (Typus HP).

与草石蚕 *S. sieboldi* Miq. var. *sieboldi* 区别在于植株各部近于无毛。

4. **地蚕** 新种 冬虫夏草(广西桂平)

Stachys geobombycis C. Y. Wu, sp. nov.

Stachys aspera auct. non Michx: Dunn et Tutch. Fl. Kwangt. & Hongk. in Kew Bull. Misc. Inf. Add. Ser. 10:211. 1912.

S. kouyangensis auct. non (Van.) Dunn: Merr. in Sunyatsenia 1:207. 1934.

S. arrecta auct. non Bailey: Hand.-Mazz. Symb. Sin. 7: 926. 1936.

4a. **地蚕**

var. **geobombycis**

Species *S. sieboldi* Miq. affinis, sed calycis dentibus triangularibus differt.

Herba perennis, 40—50 cm alta; rhizomate repente, crasso, succulente, e nodis radicibus fibrosis radicante. Caulis erectus, quadrangularis, quadrisulcatus, non vel multo ramosus, angulis et nodis sparse retrorsumque piloso-hispidis. Folia caulina oblongo-ovata, 4.5—8 cm longa, 2.5—3 cm lata, apice obtusa, basi leviter cordata vel rotundata, margine regulariter grosse crenato-serrata, supra viridia consperse piloso-hispida, subtus pallidiora

praecipue ad nervos dense ceterum sparse piloso-hispida, nervis lateralibus circa 4-jugis supra inconspicuis subtus prominentibus, petiolis 1—4.5 cm longis dense piloso-hispidis ventre planis dorso convexis; folia floralia diminuta, infima minora, lanceolato-ovata, apice obtusa, basi rotundata, brevipetiolata vel subsessilia, superiora minuta, rhomboideo-lanceolata, semper calvce breviora, margine repanda, sessilia. Verticillastri axillares, 4—6-flori, remoti, in spicam 5—18 cm longam formantes, bracteis paucis lineari-subulatis minutis vix 0.5 mm longis caducis suffulti. Pedicelli circa 1 mm longi, pubescentes. Calyx obconicus, minutus, 5.5 mm longus, extus dense pubescens et glanduloso-pubescens, intus glaber, conspicue 10-nervius, venis ad basin calycis plus minusve prominentibus, tubo 4 mm longo, dentibus 5 regulariter triangularibus aequalibus 1.5 mm longis margine glanduloso-pubescentibus apice callosis. Corolla pallide purpurea ad purpureo-coerulea, nonnunquam rosea, circa 1.1 cm longa; tubo circa 7 mm longo, cylindrico, extus superne pubescente ceterum glabro, intus ad 1/3 basin horizontaliter pubescenti-annulato; limbo bilabiato, labio superiore recto oblongo-ovato 4 mm longo 2.5 mm lato extus pubescente intus glabro, labio inferiore horizontaliter patente ambitu ovato 5 mm longo 4 mm lato extus pubescente intus ad medium consperse pubescente, trilobato, lobo medio majore anguste ovato 1.5 mm lato, lobis lateralibus ovatis circa 1.5 mm latis. Stamina 4, 2 antica paullo longiora, omnia sub labio superiore adscendentia, filamentis filiformibus, infra medium pubescentibus, antheris ovoideis 2-locularibus, loculis initio divergentibus mox divaricatis. Stylus filiformis, stamina paullo superans, apice aequaliter bifidus. Discus cupuliformis. Ovarium nigrobrunneum, glabrum. Floret in Aprili-Majo.

Chekiang: Lung-chuan (龙泉), Majo 19, 1930, K. K. Tsoong (钟观光) *495* (Typus HP).

Fukien: Ku-shan (鼓山), Majo 12, 1928, K. K. Tsoong *743*; Yen-ping (延平), 700 m s.m., Jun. 21, 1925, H. H. Chung (钟心煊) *3338*; loc. ign. (产地不明), L. K. Ling (林来官) *203*, *439*.

Hunan: loc. ign. (产地不明), P. T. Yeh (叶培忠) *125*, *196*; Yi-chang (宜章), Apr. 1934, W. T. Tsang (曾怀德) *23671*; ibidem, Majo 1934, W. T. Tsang *23801*; Heng-shan (衡山), 690 m s.m., S. H. Chun (陈少卿) *3362*; loc. ign. (产地不明), L. J. Pi (毕列爵) *10172*; Kien-yang (黔阳), Apr. 1952, C. T. Lee (李择棠) *330*.

Kwangtung: pars borealis, Apr. 21, 1930, S. P. Ko (高锡朋) *50418*; Lung-chuan (龙川), Apr. 28, 1930, C. L. Tso (左景烈) *21620*; Yü-yüan (乳源), Jun. 4, 1933, S.P.Ko *52777*; Ying-tak (英德), Apr. 13, 1931, H. Y. Liang (梁向日) *60432*; Jen-hwa (仁化), Majo 1936, W. T. Tsang *26363*; Ying-tak, 170 m s.m., Majo 2, 1943, P. H. Liang (梁宝汉) *84487*; loc. ign., Majo 6, 1946, coll. ign. (采集人不明) *805* (Herb. Inst.Bot. Acad. Sin. no. *625765*); loc. ign., W. Y. Chun (陈焕镛) *9188*.

Kwangsi: Liu-chow (柳州), Apr. 10, 1955, S. H. Chun (陈少卿) *8707*; Kwei-ping (桂平), 110m s.m., Apr. 25, 1960, Inst. Pharma. Kwangsi. (广西药物研究所) *10660*.

本种近草石蚕 *St. sieboldi* Miq.，但萼齿正三角形可区别。

4b. **地蚕白花变种**　新变种

Stachys geobombycis C. Y. Wu var. **alba** C. Y. Wu et H. W. Li, var. nov.

A var. *geobombyci* recedit floribus albis, calycis dentibus lanceolato-triangularibus 3 mm longis apice aristatis ± reflexis, folii marginibus grosse crenato-serratis.

Kwangsi: Chuan-hsien (全县), Jun. 12, 1937, Z. S. Chung (钟济新) *81946* (Typus HP).

Kwangtung: Yü-yüang (乳源), Majo 3, 1934, S. P. Guo (郭素白) *80373*.
Hunan: Heng-shan (衡山), Majo 18, 1944, H. T. Chang (张宏达) *3080*.

与地蚕 *S. geobombycis* C. Y. Wu var. *geobombycis* 区别在于花冠白色，萼齿披針状三角形，长 3 毫米，先端刺尖，多少反折，叶緣具粗大的圓齿状鋸齿。

5. **黃花水苏** 新种 地鈕菜(四川南川)

Stachys xanthantha C. Y. Wu, sp. nov.

5a. **黃花水苏**

var. **xanthantha**

Species *S. sieboldi* Miq. affinis, sed floribus flavis, petiolis longioribus differt.

Herba perennis, 40—70 cm alta; rhizomate non crasso, repente, e nodis radicibus fibrosis radicante. Caulis erectus, tener, non vel supra medium pauce ramosus, quadrangularis, quadrisulcatus, ad angulos et nodos retrorsum septato-strigosus, internodiis semper elongatis foliis multo longioribus. Folia caulina oblongo-ovata, 4—10 cm longa, 1.8—4 cm lata, apice acuta, basi leviter cordata nonnumquam truncata vel late cuneata, margine regulariter crenato-serrata, supra viridia ad marginem dense ceterum sparse strigosa, subtus pallidiora ad costam et nervos laterales sparse strigosa ceterum subglabrescentia, nervis lateralibus 3—4-jugis supra non prominentibus vel ± impressis subtus prominentibus albescentibusque, petiolis 1—5 cm longis subcomplanatis strigosis; folia floralia sursum sensim diminuta, infima cum foliis caulinis conformia basi truncata brevi-petiolata (petiolis vix 1 cm longis), superiora lanceolata sessilia verticillastris paullo longiora vel breviora. Verticillastri semper 6-flori, spicas 5—12 cm longas formantes, inferiores 2—3 remoti, superiores aggregati, bracteis paucis lineari-lanceolatis brevibus vix 1 mm longis glabris caducis suffulti. Pedicelli breves, circa 1 mm longi, pubescentes. Calyx anguste campanulatus, 8 mm longus, tubo 5—5 mm longo extus ad nervos septato-strigoso intus glabro, nervis 10 conspicuis, venis infra medium tubi ± prominentibus, dentibus 5 subaequalibus vel posticis 3 paullo majoribus anguste triangularibus 2.5—3 mm longis apice aristatis (aristis 0.5 mm longis) margine glanduloso-pubescentibus. Corolla flava 1.5 cm longa; tubo sursum sensim dilatato, extus antice supra annulum saccato-dilatato, intus vix ad basin oblique pubescenti-annulato; limbo bilabiato, labio superiore recto extus sparse pubescente intus glabro oblongo-ovato 5 mm longo 3 mm lato apice repando, labio inferiore horizontaliter patente extus sparsissime pubescente intus glabro ambitu subrotundato 7 mm longo 6 mm lato trilobato, lobo medio majore subrotundato 5 mm lato, lobis lateralibus ovatis circa 2 mm latis. Stamina 4, 2 antica paullo longiora, omnia sub labio superiore adscendentia, filamentis filiformibus complanatis apice paullo dilatatis ad medium pubescentibus, antheris ovoideis 2-locularibus, loculis longitudinaliter dehiscentibus divergentibus. Stylus filiformis, stamina paullo superans, apice subaequaliter bifidus. Discus cupuliformis, crenatus. Ovarium intense brunneum, glabrum. Floret in Junio-Julio.

Szechuan: Nan-chuan (南川), Kin-fu-shan (金佛山), 2150 m s.m., Jun. 18, 1957, K. F. Li (李国风) *62280* (Typus HK); ibidem, 2050 m s.m., Jul. 8, 1957, K. F. Li *62559*; ibidem, 2000 m s.m., Jul. 21, 1957, Z. H. Hsiung (熊济华) et Z. L. Chow (周子林) *92196*; ibidem, 2000 m s.m., Jul. 21, 1957, A. H. Hsiung et Z. L. Chow *92193*; ibidem, 2100 m s.m., Aug. 13, 1957, Z. H. Hsiung et Z. L. Chow *92651*; ibidem, 1950 m s.m., Jul. 21, 1957, Z. H. Hsiung et Z. L. Chow *95294*.

本种近草石蚕 *S. sieboldi* Miq., 但花黄色,叶柄較长。

5b. 黄花水苏柔弱变种　新变种

Stachys xanthantha C. Y. Wu var. **gracilis** C. Y. Wu et H. W. Li, var. nov.

A var. *xanthantha* recedit caule tenero flexuoso adscendente valde ramoso, foliis triangulari-ovatis minoribus 1.5—3.5 cm longis 1—2 cm latis.

Szechuan: Hung-tsih (洪溪), 2300 m s.m., Jul. 13, 1959, Szechuan-Expeditio (Liangshan) (川经凉) *1101* (Typus HK).

与黄花水苏 *S. xanthantha* C. Y. Wu var. *xanthantha* 的区别在于茎柔弱，曲折，上升，极多分枝，叶三角状卵圆形，較小，长 1.5—3.5 厘米，宽 1—2 厘米。

6. 大理水苏　新种

Stachys taliensis C. Y. Wu, sp. nov.

Species *S. sieboldi* Miq. affinis sed differt floribus albis, calycibus majoribus cum dentibus triangularibus, foliis supra sericeo-strigosis.

Herba perennis, 60—100 cm alta; rhizomate non crasso, repente, e nodis radicibus fibrosis radicante. Caulis erectus, tener, eramosus, quadrangularis, quadrisulcatus, superne ad angulos pilis basi tuberculosis retrorsis strigosis ceterum dense piloso-strigosis obtectus, inferne angulis et nodis exceptis subglabrescens, internodiis elongatis, foliis multo longioribus. Folia caulina lanceolato-ovata, 4—8 cm longa, 2—2.5 cm lata, apice acuta, basi truncata vel leviter cordata, margine crenato-serrata, supra viridia dense sericeo-strigosa, subtus pallidiora sparse strigosa, nervis lateralibus 3-jugis supra paullo conspicuis subtus prominentibus, petiolis complanatis 1—2 cm longis pilis basi tuberculosis retrorsis strigosis et piloso-strigosis obtectis; folia floralia cum foliis caulinis subconformia, sursum sensim diminuta, basi late cuneata ad rotundata, subsessilia, infima majora verticillastris multo longiora, superiora verticillastris paullo longiora vel breviora. Verticillastri semper 6-flori, spicas 5—7 cm longas formantes, inferiores 2—3 paullo remoti, superiores aggregati, bracteis paucis linearibus minutis vix 1 mm longis ciliatis caducis suffulti. Pedicelli breves, circa 1 mm longi, pubescentes. Calyx campanulatus, 6—7 mm longus, extus sericeo-strigosus, intus glaber, 5-nervius, dentibus 5 triangularibus subaequalibus vel posticis 3 paullo majoribus 1—2 mm longis apice callosis margine glanduloso-pubescentibus. Corolla alba circa 1.3 cm longa; tubo circa 8 mm longo subcylindrico, extus superne sparse pubescente antice supra annulum paullo saccato-dilatato, intus ad 1/3 basin oblique pubescenti-annulato, annulo apice disconjuncto; limbo bilabiato, labio superiore recto oblongo-ovato 5 mm longo 3 mm lato extus pubescente intus glabro, labio inferiore horizontaliter patente ambitu ovato circa 5 mm lato extus sparse pubescente intus glabro trilobato,

lobo medio subrotundo circa 3 mm lato apice emarginato, lobis lateralibus ovatis circa 1.5 mm latis. Stamina 4, 2 antica longiora, omnia sub labio supero adscendentia, filamentis filiformibus, infra medium pubescentibus, apice paullo dilatatis, antheris ovoideis 2-locularibus, loculis longitudinaliter dehiscentibus divergentibus. Stylus filiformis, stamina paullo superans, apice subaequaliter bifidus. Discus cupuliformis, crenatus. Ovarium nigro-brunneum, glabrum. Floret in Junio.

Yunnan: Ta-li (大理), Jun. 19, 1940, R. C. Ching (秦仁昌) *22978* (Typus HK).

本种近草石蚕 *S. sieboldi* Miq., 但花白, 萼大且齿三角形, 叶上面被絹質糙伏毛可以区别。

7. **狭齿水苏** 新种

Stachys pseudophlomis C. Y. Wu, sp. nov.

Species *S. kouyangensi* (Van.) Dunn affinis sed rhizomate crasso, foliis majoribus ovato-cordatis ultra 3 cm longis differt.

Herba perennis, 50—100 cm alta; rhizomate crasso, e nodis radicibus fibrosis dense radicante. Caulis strictus, non vel multo ramosus, quadrangularis, quadrisulcatus, dense retrorsum pilosus. Folia caulina ovato-cordata, circa 5—7 cm longa, 2.8—4 cm lata, apice acuminata, basi cordata, margine regulariter crenulato-serrata, membranacea, supra dense sericeo-strigosa, subtus ad costam et nervos laterales dense patenterque pilosa ceterum dense strigosa, nervis lateralibus 3—5-jugis supra leviter impressis subtus prominentibus, petiolis 1.5—2.5 cm longis subcomplanatis dense retrorsum pilosis; folia floralia sursum sensim diminuta, inferiora lanceolato-ovata petiolis 0.5—1.5 cm longis suffulta, superiora lanceolata basi subrotundata subsessilia verticillastris breviora. Verticillastri axillares, 2—6-flori, remoti, bracteis paucis linearibus minutis vix 1 mm longis pubescentibus suffulti. Pedicelli breves, circa 1 mm longi. Calyx tubulari-campanulatus, 6.5—7 mm longus, extus dense pilosus et glandulosus, intus superne sericeo-pubescens, nervis 10 plus minusve prominentibus, venulis non prominentibus, dentibus 5 subaequalibus 2.5—3 mm longis lineari-lanceolatis reflexis apice longe acuminatis. Corolla purpurea vel rubra, 1.5 cm longa; tubo subaequale, extus superne pubescente, intus ad 1/3 basin oblique pubescenti-annulato, annulo apice disconjuncto, antice supra annulum paullo saccato-dilatato; limbo bilabiato, labio superiore recto oblongo-ovato 4 mm longo 2.5 mm lato extus pubescente intus glabro, labio inferiore horizontaliter patente ambitu subrotundato circa 5 mm lato extus sparse pubescente intus glabro trilobato, lobo medio majore subrotundato circa 3 mm lato, lobis lateralibus ovatis 1.5 mm latis. Stamina 4, 2 antica longiora, omnia sub labio supero adscendentia, filamentis filiformibus pubescentibus apice paullo dilatatis, antheris ovoideis 2-locularibus, loculis longitudinaliter dehiscentibus divergentibus. Stylus filiformis, stamina superans, antice recurvatus, apice aequaliter bifidus, lobis subulatis. Discus cupuliformis. Ovarium brunneum, glabrum. Floret in Julio-Augusto.

Szechuan: Hung-ya (洪雅), Jul. 21, 1931, T. H. Tu (杜太华) *361* (Typus HP); Nan-chuan (南川), Sept. 1, 1957, Z. H. Hsiung (熊济华) et Z. L. Chow (周子林) *93208*; Feng-kien (奉节), 800 m s.m., Aug.

2, 1958, M. I. Fang (方明渊) *24935*.

Hupeh: Chien-shih (建始), Aug. 24, 1934, H. C. Chow (周鹤昌) *1353*.

本种近西南水苏 *S. kouyangensis* (Van.) Dunn, 但根茎肥大，叶較大，卵圓状心脏形，长在 3 厘米以上可以区别。

水苏组西南水苏系 新系

Sect. **Stachys** Ser. **Kouyangenses** C. Y. Wu et H. W. Li, ser. nov.

Rhizoma non succulens. Folia minora, triangulo-cordata vel hastato-triangularia.

Typus seriei: *St. kouyangensis* (Vaniot) Dunn (西南水苏)

Species 1: *St. kouyangensis* (Vaniot) Dunn (西南水苏)

根茎非肉質。叶短小，三角状心脏形或戟状三角形。

8. **西南水苏**

Stachys kouyangensis (Vaniot) Dunn in Notes Bot. Gard. Edinburgh **8**:167. 1913; op. cit. **6**:180. 1915, p.p., excl. syn. *St. franchetiana*.

Lamium kouyangense Vaniot in Bull. Acad. Internat. Géogr. Bot. **14**:175. 1904; Dunn in Journ. Linn. Soc. Bot. **39**:462. 1911.

St. cardiophylla Prain ex Dunn in Journ. Linn. Soc. Bot. **39**:497. 1911.

Stachys cordifolia auct. non C. Koch: Prain in Journ. Asiat. Soc. Bengal **59**:310. 1890; Diels in Notes Bot. Gard. Edinburgh **7**:246, 314. 1912; **8**:403. 1913.

St. franchetiana auct. non Lévl.: Diels in Notes Bot. Gard. Edinburgh **7**:135, 314. 1912; 8:403. 1913.

St. palustris auct. non Linn.: Dunn in Notes Bot. Gard. Edinburgh **6**:181. 1915 p.p. quoad specimen Forr. 4523.

St. sieboldi auct. non Miq.: Hand.-Mazz. in Act. Hort. Gothob. **13**:147. 1939 p.p.

8a. **西南水苏**

var. **kouyangensis**

8b. **西南水苏具瘤变种**

Stachys kouyangensis (Vaniot) Dunn var. **tuberculata** (Hand. -Mazz.) C. Y. Wu, comb. nov.

Stachys sieboldi Miq. var. *tuberculata* Hand.-Mazz. in Act. Hort. Gothob. **13**:348. 1939.

云南： 兰坪，蔡希陶 *56065* (等全模式 Isoholotypus!); 碧江(知子罗)，蔡希陶 *58530*; 凤庆 (顺宁)，俞德浚 *17587*; 产地不详，王汉臣 *2509*; 南华(蒙化)，蒋英 *11804*; 楚雄，陈谋 *1950*; 洱源，秦仁昌 *23253*。

本变种生于灌丛及杂木林中，海拔 1600—3200 米，其特征是：萼齿具鈍微尖头，小坚果倒卵形，长約 2.5—3 毫米，具瘤。

8c. **西南水苏細齿变种**

Stachys kouyangensis (Vaniot) Dunn var. **leptodon** (Dunn) C. Y. Wu, comb. nov.

Stachys leptodon Dunn in Notes Bot. Gard. Edinburgh **8**:167. 1913; op. cit. **6**:180. 1915; Kudo Labitat. Sino-Japon. Prodr. in Mem. Fac. Sci. Agr. Taihoku Univ. **2**:191. 1929.

云南： 产地不详，Maire *1091* (可能是 Dunn 引作 Maire *1591* 的 isosyntypus); 昆明，西南联大 *7575*, 刘慎

胥 16992，邱炳云 50151，50812，54889；东川，Maire s. n.；宾川，陈谋 2464；屏边，蔡希陶 55202，60364，王启无 82326；楚雄，李鸣岗 154；大理，王汉臣 866；屏边，中苏调查队 2022；景东，许溯桂 5252。

贵州： 朵莲山，T. S. Kang 50543；产地不明，辛树帜 50543；清镇，邓世纬 618。

本变种生于草地、沟边等处，海拔 1500—2400 米，其特征是：萼齿披針形至綫形，反折，小坚果卵珠形，长約 2 毫米，光滑。

8d. **西南水苏柔毛变种** 新变种

Stachys kouyangensis (Vaniot) Dunn var. **villosissima** C. Y. Wu, var. nov.

A var. *kouyangensi* recedit partibus juvenilibus praecipue foliis subtus et calycibus dense sericeo-villosulis.

Yunnan: Kun-ming (昆明), Hsi-shan (西山), prope Kao-chiao (高桥), 1900 m s.m., Jun. 16, 1945, T. N. Liou (刘慎谔) *13525* (Typus HP); Yan-shan (砚山), To-kou-tzai (土锅寨), 1200 m s.m., Oct. 2, 1939, C. W. Wang (王启无) *84130*。

与西南水苏 *S. kouyangensis* (Vaniot) Dunn var. *kouyangensis* 区别在于幼部特别是叶背及花萼密被絲状小长柔毛。

8e. **西南水苏粗齿变种** 黄狠鼠花(四川黑水)

Stachys kouyangensis (Vaniot) Dunn var. **franchetiana** (Lévl.) C. Y. Wu, comb. nov.

Stachys franchetiana Lévl. in Repert. Sp. Nov. Fedde **13**:246. 1911.

S. chinensis Hand.-Mazz. in Act. Hort. Gothob. **13**:348. 1939 p.p. quoad syn. *S. franchetiana* Lévl.

S. kouyangensis (Vaniot) Dunn in Notes Bot. Gard. Edinburgh **6**:180. 1915 p.p. quoad syn. *St. franchetiana* Lévl.

四川： 康定，刘振书 652 (同地模式 Topotypus!)，1134，王作宾 9851，杨衔晋 3722，曲桂龄 7362，7598，胡文光 10528，11055，11189，J. A. Soulie 448 (照片 11097)；普格，陈嵘 311；木里，俞德浚 7372；稻城，俞德浚 12944；甘孜，崔友文 4250，5056，鍾补求 5089；理县，胡文光 53—128，53—603，何琰平 44258，44683；松岗，李馨 70895；马尔康，李馨 71321；黑水，李馨、周继西 73535，张泽云、周洪富 23379，23732；产地不明，方文培、张泽荣 22553。

云南： 维西，王启无 63796；德欽，王启无 69829，70219，俞德浚 9399，9414，9519，10059；中甸，俞德浚 11880，12564，冯国楣 1677，南水北调队 9606；丽江，和鸣昌 20996。

本变种生于草坡、沟边及水田边，海拔 2700—3800 米，其特征是：萼齿綫形，具刺尖，近开张，叶戟状三角形，基部近平截，边緣具粗大圆齿。模式标本采于四川康定 (J. A. Soulie 727)。

蜜蜂花属——Melissa Linn.

1. **云南蜜蜂花** 新种

Melissa yunnanensis C. Y. Wu et Y. C. Huang, sp. nov.

Affinis *M. flavae* Benth. et *M. officinali* Linn. sed corollis flavis; calycis labio superiore intus villoso, dentibus lateralibus ad dentem medium conniventibus differt.

Herba circa 1 m alta. Caulis quadrangularis, paullo ramosus, puberulus. Folia ovata vel lanceolato-ovata, 2—5 cm longa, 0.8—3 cm lata, apice acuta subacutave, basi acuta obtusa vel cordata, margine irregulariter crenata vel serrata, submembranaceae, supra puberula vel subglabra, subtus dense puberula, nervis lateralibus 3—4-jugis ut costa supra planis subtus paullo elevatis, venulis subtus prominentibus; petioli tenues, 0.5—2 cm longi,

dense brevissime puberuli. Verticillastri axillares, 2—16-flori, numerosi; pedicelli circa 3 mm longi, dense brevissime puberuli; bracteae foliaceae, minutae; bracteolae sublineares, pedicellis breviorae, puberulae et ciliatae. Calyx campanulatus, post anthesin ampliatus, deflexus, 0.8—1.2 cm longus, 13-nervius, extus pilis septatis pilosis vestitus, intus tantum in labio superiore villosus; labium superius 3-dentatum, dentibus lateralibus paullo ad dentem medium conniventibus; labium inferius profunde 2-dentatum, dentibus lanceolatis. Corolla flava, ad 1.5 cm longa, extus puberula; labium superius rectum, apice emarginatum; labium inferius trilobatum, lobo medio majore apice rotundato, lobis lateralibus minoribus rotundis. Stamina 4, didynama, inclusa. Discus leviter 4-fidus. Stylus apice aequaliter bifidus. Nuculae oblongo-ovoideae, apice emarginatae, laeves.

Yunnan: Bi-kiang (碧江) (Che-tse-lo, 知子罗), 3200 m s.m., Sept. 4, 1934, H. T. Tsai (蔡希陶) *58356* (Typus HP).

本种近黄蜜蜂花 *M. flava* Benth. 和香蜂草 *M. officinalis* Linn., 但不同在于花黄色，萼上唇内面被长柔毛，其侧齿向中齿靠合。

姜味草属——Micromeria Benth.

1. 香姜味草

Micromeria euosma (W. W. Smith) C. Y. Wu, comb. nov.

Calamintha euosma W. W. Smith in Notes Bot. Gard. Edinburgh 9:89. 1916.

Satureia euosma (W. W. Smith) Kudo Labiat. Sino-Japon. Prodr. in Mem. Fac. Sci. Agr. Taihoku Univ. 2:100. 1929.

云南： 丽江，西南联大 s. n., *7476*，冯国楣 *2492*。

模式标本采于云南西北部金沙江大拐湾东北，北纬 27°45′ (Forr. *574*)。

神香草属——Hyssopus Linn.

1. 硬尖神香草白花变种 新变种

Hyssopus cuspidatus Boriss. var. **albiflorus** C. Y. Wu et H. W. Li, var. nov.

A var. *cuspidato* recedit tantum floribus albis.

Sinkiang: Tacheng (塔城) (Tarbagatai, 塔尔巴哈台), Aug. 13, 1957, K. C. Kuan (关克俭) *2940* (Typus HP).

与硬尖神香草 *H. cuspidatus* Boriss. var. *cuspidatus* 区别仅在于花冠白色。

2. 宽唇神香草 新种

Hyssopus latilabiatus C. Y. Wu et H. W. Li, sp. nov.

(Ser. *Macranthi* Boriss.)

Species *H. macrantho* Boriss. affinis sed corollis minoribus, lobo medio labii inferioris lobis lateralibus multo latiore, lobulis 2 lobi medii apice repando-serratis; cymis superioribus multifloris (3—4-floris), propius dispositis differt.

Suffrutex humilis, 20 cm altus. Caulis basi lignosus, brunneus, semper tortuosus, e basi fastigato-ramosus, cortice irregulariter lacerato; rami hornotini numerosi, basi pallide

brunnei, superne virescentes, obtuse quadrangulares, glabri, internodiis quam folia longioribus. Folia caulina linearia, 1—2 cm longa, 1—2 mm lata, apice obtusa, basi cuneata, sessilia, utrinque glabra glandulis impressis dispersa, margine plus minusve revoluta, supra pallide viridia, subtus pallide glauco-viridia, costa supra impressa subtus convexa; folia floralia cum foliis caulinis conformia, breviora, 0.3—1 cm longa, vix 1 mm lata. Cymae secundae, spicas 5—8 cm longas formantes, superiores approximatae, 3—4-florae, inferiores paullo remoti, 1—2-florae, brevi-pedunculatae, pedunculis circa 2 mm longis; pedicelli circa 2—4 mm longi, medii longiores, ut pedunculus pubescentes et glandulosi; bracteae et bracteolae minutae lineari-subulatae pedicellis breviores. Calyx tubulari-campanulatus, in sicco semper purpurascens, 6 mm longus, extus pubescens ac glandulosus, intus ad dentes sparse pubescens ceterum glaber, conspicue 15-nervius, ad sinum a conjunctione nervi duorum plus minusve tuberculatus, dentibus 5 aequalibus triangularibus circa 2 mm longis apice acutis, acuminibus minutis. Corolla purpurea, circa 13 mm longa, extus superne pubescens glandulis aliquando intermixta, intus glabra; limbo bilabiato, labio superiore recto oblongo circa 5 mm longo extus pubescente intus glabro apice bilobato lobis ovatis, labio inferiore patente circa 7 mm longo latiore extus lobo medio excepto pubescente intus glabro trilobato, lobo medio latissimo ad 1 cm lato, lobis lateralibus multo latiore obcordato basi subito contracto circa 2 mm lato apice profunde emarginato itaque vexillato-bilobulato, lobulis apice repando-serratis, lobis lateralibus ovatis circa 2 mm latis. Stamina 4, 2 antica longiora, multo exserta, filamentis filiformibus glabris, antheris purpureis 2-locularibus, loculis divergentibus. Stylus filiformis, stamina superans, glaber, apice deorsum recurvatus, aequaliter bifidus. Discus cupuliformis. Ovarium apice pubescens. Floret in Augusto.

Sinkiang: Tien-shan (天山), inter Lao-ba (老坝) et Miaoer-guo (庙儿沟), Aug. 3, 1957, K. C. Kuan (关克俭) *2375* (Typus HP).

本种近大花神香草 *H. macranthus* Boriss., 但花冠較小, 下唇中裂片比 2 側裂片寬很多,中裂片的 2 小裂片先端具波状齿,上部聚繖花序多花(3—4 花)而較密集排列。

石荠苧屬——**Orthodon** Benth. et Oliv.

1. 杭州石荠苧

Orthodon hangchowensis (Matsuda) C. Y. Wu, comb. nov.

Mosla hangchowensis Matsuda in Bot. Mag. Tokyo **26**:344. 1912.

浙江: 杭州, N. T. Wang *127*, 钟观光 *3860* (灵隐, 1927 年 8 月 17 日), 采集人及号码不详二份 (南峯山, 1944 年 9 月 5 日及仇家峯, 1944 年 8 月 6 日);海门,钟观光 *3860* (1933 年 9 月 9 日), H. Migo s.n.; 普陀, H. Migo s.n.; 产地不详?,耿以礼 *1193*。

H. Migo 在普陀及海門所采到的标本与原种描写略有差异, 其茎、叶、苞片及萼均被稀疏平展糙硬毛,苞片較大,萼齿較长。本种近年在上海有引种,作芳香油植物。

2. 苏州荠苧 土荆芥、天香油(浙江台州),香草(浙江龙泉)

Orthodon soochowensis (Matsuda) C. Y. Wu, comb. nov.

Mosla soochowensis Matsuda in Bot. Mag. Tokyo **26**:134. 1912.

江苏：苏州，S. W. Kang *139*, H. Migo s.n.; 溧阳，张肇骞 *1701*，刘昉勳等 *2780*, *2802*；无锡，薛万鹏 *555*, *963*, *1072*, *1081*, *1100*；常熟，周太炎 *2206*；产地不明，刘玉壶 *3152*，复旦大学 *53*。

安徽：宁国，采集人不详 *30059*；休宁，秦仁昌 *4619*；黄山，华东工作站 *6315*，复旦大学 *89*。

浙江：龙泉，贺賢育 *3223*；杭州，秦仁昌 *3592*；云和，陈诗 *749*；吳兴，陈诗 *2506*, *2561*；金华，贺賢育 *2989*；?，商王寺，贺賢育 *578*。

3. **长穗荠苧**　新种

Orthodon longispicus C. Y. Wu, sp. nov.

(Sect. *Orthodon*)

Species *O. chinensi* (Maxim.) Kudo valde affinis, sed bracteis ovato-lancedlatis; racemis pluribus, 1.5—10 cm longis, fere partes majores caulium et ramorum omnium occupantibus; caulibus paucifoliatis differt.

Herba annua. Caulis circa 40 cm altus, quadrangularis, ramosus; ramis cauli subaequilongis, brunneo-rubris, sparse fulvido- vel albo-crispulo-pubescentibus, paucifoliatis. Folia linearis, 7—15 mm longa, 2.5—6 mm lata, apice obtusa vel acuta, basi attenuata, supra olivacea dense breveque fulvido-pilosa interdum subglabra glandulis sparse dispersa, subtus pallidiora glandulosis et pilis fulvidis pilosis brevibus dense tecta vel glabra, margine parce serrata, chartacea; petioli 1—4(15) mm longi. Racemi terminales plures, fere partes majores caulium et ramorum omnium occupantes, 1.5—10 cm longi, caulini longiores, ramei breviores; bracteae ovato-lanceolatae, apice abrupte acuminatae, 4—4.5 mm longae, 1.7—2 mm latae, pedicellis multo longiores. Calyx campanulatus, circa 2.5 mm longus et 2 mm in diametro, extus dense cineraceo-luteo-villosus, ad nervos pilis longioribus tectus, dentibus 5 subaequalibus, dente posteriore breviore. Corolla rosea, circa 3 mm longa, extus puberula. Nucula 1 tantum matura, cinerea, sphaerica, circa 1.2 mm in diametro, profunde exsculpta. Floret et fructificat in Novembri.

Kiangsi: Nan-chang (南昌), Lien-tang (蓮塘), Nov. 12, S. S. Yang (杨祥学) *11184* (Typus HP); Lushan (庐山), Oct. 1,1943, H. Migo s.n.; ibidem, in horto botancio, Sept. 24, H. Migo s. n.;?, Tong-ngan, Nov. 4—5, 1914, coll. ign. *10937*.

本种与細叶蕎苧 *O. chinensis* (Maxim.) Kudo 极近似，但苞片卵圓状披針形，总状花序多数，长 1.5—10 厘米，几每一分枝及主茎的大部分为花序所占据，茎少叶，与之区别。

4. **少花荠苧**　新种

Orthodon pauciflorus C. Y. Wu, sp. nov.

(Sect. *Orthodon*)

Proximus *O. chinensi* (Maxim.) Kudo, sed foliis lanceolatis, margine parce acuto-serratis, bracteis ovato-lanceolatis, racemis laxifloris differt.

Herba annua erecta. Caulis (15)20—70 cm altus, quadrangularis, sparse albo-pubescens, multiramosus. Folia lanceolata ad anguste lanceolata, 1.5—4 cm longa, 0.6—1.2 cm lata, apice acuta, basi attenuata, supra olivacea laxe pubescentia, subtus pallidiora ad nervos sparsissime pilosa ceterum glandulis dispersa, margine parce acuto-serrata,

papayracea; petioli 0.5—1.5 cm longi. Racemi 1.2—10 cm longi, caulini longiores, ramei subcapituliformes, laxiflori; bracteae ovato-lanceolatae, 5—6 (8—9) mm longae, 2—4.5 mm latae, apice acuminatae, basi acutae, pedicellis multo longiores, infimae interdum ad 1 cm longae ad 4.5 mm latae. Calyx campanulatus, circa 3 mm longus, 2 mm latus, extus albo-pilosus, subbilabiatus, dentibus posterioribus brevioribus anguste lanceolatis. Corolla rosea ad purpurea, circa 4 mm longa, extus puberula, intus sine annulo piloso ornata. Nuculae atro-brunneae, globosae, circa 1.5 mm in diametro, profunde exsculptae. Floret in Septembri-Octobri. Fructificat in Octobri.

Hupeh: Hsian-feng (咸丰), 1700 m s.m., Sept. 29, 1948, W. C. Cheng (郑万钧) et C. T. Hwa (华敬灿) *1090*; Pa-tung (巴东), Lo-ping (罗平), 1140 m s.m., C. L. Chen (陈权叔) et L. Y. Dai (戴伦膺) *1785*; Li-chuan (利川), Oct. 6, 1957, K. H. Fu (傅国勳) et Z. S. Chang (张志松) *1917* (Typus HP).

Szechuan: Pa-hsien (巴县), Peh-pei (北碚), Tsing-yunshan (缙云山), Sept. 28, 1939, Y. Z. Sun (孙雄才) *1608*; Nan-chuan (南川), 1000 m s.m., Sept. 12, 1957, Z. H. Hsiung (熊济华) et Z. L. Chow (周子林) *93331*; ibidem, King-fushan (金佛山), 1350 m s.m., Oct. 7,1957, Z. H. Hsiung et Z. L. Chow *93485*; ibidem, Pai-mou-ping (白雾坪), 990 m s.m., Oct. 20, 1957, K. F. Li (李国凤) *64750*.

Kweichow: Van-ching-shan (梵淨山), Sept. 3, 1931, C. Y. Chiao (焦启源) et H. C. Chow (周鶴昌) *334*.

本种与細叶薺苧 *O. chinensis* (Maxim.) Kudo 相似,但叶披針形, 边緣具疏銳鋸齿, 苞片卵状披針状,总状花序疏花,与之相异。

5. 无叶荠苧 新种

Orthodon exfoliatus C. Y. Wu, sp. nov.

(Sect. *Mosla* Benth.)

Species *O. scabro* (Thunb.) Hand.-Mazz. affinis, sed planta plerumque efoliata; caule et calyce intense purpureo-rubris, caule retrorsum cineraceo-pubescenti, calyce ad tubum villoso; racemis pluribus; bracteis ovato-lanceolatis, pedicellis 1.5—2-plo longioribus differt.

Herba annua erecta. Caulis 20—35 cm altus, purpureo-ruber, quadrangularis, ramosus, retrorsum cineraceo-pubescens, plerumque efoliatus. Racemi plures, i.e. omnes ramos occupantes, inaequilongi, 1—10 cm longi; bracteae ovato-lanceolatae, 2.5—3.5 mm longae, 1—1.5 mm latae, pedicellis 1.5—2-plo longiores. Calyx campanulatus, circa 3.5 mm longus, 2.5 mm in diametro, extus ad tubum villosus, ceterum pilosus, bilabiatus, dentibus posterioribus 3 triangularibus, dente medio breviore, anterioribus 2 lanceolatis longioribus. Corolla purpurea, calycem leviter superans, extus puberula. Nuculae ignotae.

Szechuan: Pa-hsien (巴县), Peh-pei (北碚), Tsing-yun-tse (缙云寺), Dec. 16, 1935, Y.Y. Ho (贺賢育) *7063* (Typus HN).

本种近石薺苧 *O. scaber* (Thunb.) Hand.-Mazz., 但植株常无叶, 茎与萼深紫紅色, 茎被灰色下向短柔毛,萼筒部被长柔毛,总状花序极多数,苞片卵圓状披針形、为花梗长的 1.5—2 倍,与之相区别。

6. 长苞荠苧 新种 土荆芥(广西兴安)

Orthodon longibracteatus C. Y. Wu et Hsuan, sp. nov.

(Sect. *Mosla* Benth.)

Species *O. formosano* (Maxim.) Kudo affinis, sed foliis obovatis vel rhomboideis, apice obtusis; bracteis ovato-lanceolatis ad lanceolatis, pedicellis multo longioribus; corollis calyces leviter superantibus differt.

Herba annua. Caulis 30—50 cm altus, quadrangularis, ad angulos et nodos retrorsum hispidulus, multiramosus, ramis oblique rectis. Folia obovata vel rhomboidea, 1.6—3.3 cm longa, 0.9—1.6 cm lata, apice obtusa, basi attenuata, in petiolos 6—12 mm longos decurrentia, margine supra medium crenata vel crenato-serrata inferne integra, utrinque olivacea, glabra, subtus sparse glandulosa, papyracea. Racemi ad caulem et ramos terminales, 6—11 cm longi; bracteae ovato-lanceolatae ad lanceolatae, 4—6.5 mm longae, 0.8—3 mm latae, interdum infimae foliaceae, pedicellos multo superantes; pedicelli retrorse hispiduli. Calyx campanulatus, tempore florendi circa 2.7 mm longus 2.2 mm in diametro, tempore fructu auctus ad 6 mm longus 5 mm in diametro, extus puberulus sed ad nervos retrorsum hispidulus, glandulis luteis dispersus, dentibus posterioribus 3 obtuse triangularibus, dente medio minimo, anterioribus 2 lanceolatis longioribus. Corolla pallide rosea vel albescens, qua terminalis ad inflorescentiam (vidi hune florem tantum) calyce leviter superans, intus glabra. Nuculae luteo-brunneae, subglobosae, circa 1.5 mm in diametro, laxe reticulatae. Floret in Septembri-Octobri. Fructificat post Octobrem.

Chekiang: Lung-chüan (龙泉), 480 m s. m., Oct. 12, 1934, Y. Y. Ho (贺賢育) *3343* (Typus HP).
Kwangsi: Hing-an (兴安), Sept. 27, 1954, Hing-an Expedito (兴安采集队) *186*.

本种近台湾荠苧 *O. formosanus* (Maxim.) Kudo, 但叶倒卵圆形或菱形，先端鈍，苞片卵圆状披針形至披針形，其长远超过花梗，花冠略超过花萼。

鈎子属——Rostrinucula Kudo

1. 长叶鈎子　图版四十三

Rostrinucula sinensis (Hemsl.) C. Y. Wu, comb. nov. Pl. XLIII

Leucosceptrum sinense Hemsl. ex Forbes et Hemsl. Ind. Fl. Sin. II in Journ. Linn. Soc. Bot. **26**:310. 1891; Lévl. Fl. Kouy-Tchéou 209. 1914; Dunn in Notes Bot. Gard. Edinburgh 8:171. 1913; op. cit. 6:192. 1915; Kudo Labiat. Sino-Japon. Prodr. in Mem. Fac. Sci. Agr. Taihoku Univ. 2:301. 1929; Rehd. in Journ. Arn. Arb. **16**:311. 1935; Kitamura et Murata in Act. Phytotax. Geobot. **20**:168. 1962.

Elsholtzia cavaleriei Lévl. et Vaniot in Repert. Sp. Nov. Fedde 8:424. 1910.

Leucosceptrum bodinieri Lévl. op. cit. 9:224. 1911.

Descr. addend.:

Frutex; rami teretes circa 4.5 mm in diametro brunnei striati, initio dense farinaceo-tomentosi, mox glabrescentes; ramuli plures dense farinaceo-tomentosi, medulla ampla alba repleti. Folia chartacea, linearia ad lineari-lanceolata, apice acuta, basi rotundata vel subrotundata, margine e basi triente usque ad quadrantem saepe integro excepto

crenulato-serrulato, 5.5—14.5 cm longa 1.5—3 cm lata, supra viridia glabra, subtus dense albo-stellato-tomentosa, nervis lateralibus 5—9-jugis adscendentibus ante marginem anastomosantibus supra leviter impressis subtus prominentibus; petioli breves, 0.3—0.5 cm longi, sulcati, dense albo-stellato-tomentosi. Spicae terminales, elongatae, pendulae, dense albo-stellato-tomentosae, cylindricae, 8—25 cm longae, tempore florendi ad 1.5 cm in diametro, e verticillastris pluribus compositae; verticillastri 6—10-flori, ante anthesin bracteis ovato-rotundis acuminatis extus dense albo-tomentosis intus glabris 7 mm longis 6 mm latis margine leviter revolutis decussatis caducis suffulti et bracteolis sublinearibus circa 3 mm longis eodem indumento quo bractearum tectis instructi. Calyx campanulatus, 10-nervius, extus dense stellato-tomentosus, intus glaber, dentibus 5 subaequalibus triangulari-ovatis acutis anticis 2 paullo latioribus. Corolla 5—6 mm longa; tubo exserto, glabro; limbo bilabiato extus dense stellato-tomentoso et glanduloso, labio superiore recto rotundo-ovato integro circa 1 mm longo, lobis lateralibus labii antici subaequilongis subaequale, labio inferiore patente vel erecto-patente trilobato, infra basin in appendicem cristiformem semilunatam dense papilloso-pilosam producto, lobo medio majore circa 3 mm longo concavo. Stamina 4, valde exserta, corolla fere duplo superantia; filamentis glabris, basi in excrescentias disciformes subito dilatatis dense papilloso-pilosis; antheris suborbicularibus 1-locularibus transversaliter dehiscentibus. Discus cupuliformis, margine irregulariter sinuato-dentatus fere 1/3 ovarii aequans. Stylus glaber, apice bifidus, stamina multo superans. Ovarium brunneum, stellato-tomentosum et glandulosum. Nuculae immaturae trigono-oblongae, 2 mm longae, glandulosae, flavido-brunneae, apice rostratae, rostro suberecto circa 0.5 mm longo. Floret in Octobri.

湖南: 永顺,钟补勤 *1426*。

广西: 兴安,兴安采集队 *230*。

模式标本采于湖北长阳 (A. Henry *7765*, 秦氏照片号 *2087*)。本种产湖北 (长阳), 貴州(独山),湖南(永順)及广西(兴安);湖南及广西为新記录。

綿穗苏属——Comanthosphace S. Moore

1. 南川綿穗苏 新种

Comanthosphace nanchuanensis C. Y. Wu et H. W. Li, sp. nov.

Species *C. ningpoensi* (Hemsl.) Hand.-Mazz. affinis, sed foliis multo minoribus, juvenilibus indumento pauciore obtectis vel subglabrescentibus; spica breviore, aggregata inferne fere non interrupta differt. Habitu *Rostrinculae dependenti* (Rehd.) Kudo praecipue similis, sed differt corollis 5-lobatis, tubo valde exserto intus dense et crasse piloso-annulato.

Herba perennis, erecta, e rhizomate radicibus fibrosis dense radicans. Caulis circa 60 cm altus, eramosus, obtuse quadrangularis, leviter striatus et sulcatus, superne initio stellato-tomentosus, mox subglabrescens, inferne glabrescens, virescens, lenticellis suberosis

ellipticis vel rotundis brunneis conspersis vel in maculas aggregatis; internodii quam folia breviora. Folia caulina ovata, cum petiolo 7—10 cm longa, 3.5—4 cm lata, apice acuminata, basi late cuneata subito atenuata, supra basin calloso-serrata vel interdum calloso-duplicato-serrata, chartacea, juvenilia supra consperse subtus ad costam et nervos pilis stellatis obtecta subtus conspicue aureo-glandulosa, vetustiora supra ad costam et nervos pilis stellatis vel hirtellis obtecta ceterum glabra subtus glabra sed conspicue dense aureo-glandulosa, nervis lateralibus 5—7-jugis arcuato-adscendentibus et ante marginem anastomosantibus ut costa supra leviter subtus conspicue prominentibus flavescentibusque, venis tenuibus subtus prominentibus, petiolis brevibus circa 0.5 cm longis ventre sulcatis semper dense stellato-tomentosi dorso glabrescentibus interdum suberosis; folia suprema infra inflorescentiam lanceolata ad subulata, margine remote serrata vel integra, 1—1.5 cm longa, 0.5—0.7 cm lata. Spica terminalis, erecta 10 cm longa, tempore florendi ad 1.5—2 cm lata, cylindrica, dense stellato-tomentosa, e verticillastris pluribus composita; verticillastri 10-flori, inter se aggregati, ante anthesin bracteis late triangulo-ovatis acuminatis extus albido-stellato-tomentosis intus superne interdum pilis stellatis sparse dispersis ceterum glabris 5-nervis 2—3 mm longis decussatis caducis suffulti et bracteolis minutis linearibus circa 1 mm longis extus stellato-tomentosis intus glabris instructi. Pedicelli 1—1.5 mm longi, stellato-tomentosi. Calyx tubulari-campanulatus, 4 mm longus, extus dense albido-stellato-tomentosus, intus glaber, conspicue 10-nervius, dentibus 5 breve triangularibus circa 1 mm longis apice crassiusculis anticis 2 paullo latioribus. Corolla pallide purpurascens, 8 mm longa; tubo 6 mm longo, exserto, sursum sensim dilatato, extus superne stellato-tomentoso ceterum glabro; limbo patente, bilabiato, labio superiore recto plano 1 mm longo 2 mm lato apice bilobato, labio inferiore patente, infra basin in appendicem semilunatam dense et crasse pilosum producto, trilobato, lobo medio majore ovato 2 mm longo plus minusve saccato, lobis lateralibus minoribus 1 mm longis subpatentibus. Stamina 4, purpurascentia, antica 2 longiora, valde exserta, corollam fere duplo aequantia; filamentis filiformibus, leviter complanatis, glabris, dense et crasse pilosis; antheris ovoideis 1-locularibus, loculis transversaliter dehiscentibus. Stylus filiformis, stamina paullo superans, apice aequaliter bifidus. Discus cupuliformis. Ovarium obscure brunneum, punctatum, glabrum. Nuculae ignotae. Floret in Augusto.

Szechuan: Nan-chuan (南川), 1100 m s. m., Aug. 28, 1957, Z. H. Hsiung (熊济华) et Z. L. Chow (周子林) *93127* (Typus HP).

本种近绵穗苏 *C. ningpoensis* (Hemsl.) Hand.-Mazz., 但叶远较小,幼叶毛被疏毛或近无毛，穗状花序短小，密集，且下部几无间断. 本种在体态上尤近似钩子 *Rostrinucula dependens* (Rehd.) Kudo, 但花冠 5 裂,冠筒十分伸出,内面疏柔毛环厚而密集.

霜柱属——**Keiskea** Miq.

1. 腺毛霜柱　新种　图版四十四

Keiskea glandulosa C. Y. Wu, sp. nov. Pl. XLIV

Species caule, petiolis, nervis foliorum calycibusque pilis septatis glandulosis obtectis, staminibus inclusis, foliis basi cuneatis bene diagnoscitur.

Herba erecta. Caulis circa 30 cm altus, teres, superne pilis glanduloso-villosis albis septatis crispulis obtectus, inferne demum subglabrescens. Folia ovato-oblonga vel oblonga, superiora majora 6—9 cm longa, 2.5—4 cm lata, apice acuminata vel obtusa, basi rotundata vel cuneata, inferiora minora, tantum 3.5 cm longa, basi attenuato-decurrentia, margine leviter crenato-serrata, papyracea, supra brunneo-olivacea, ad costas pubescentia ceterum pilis puberulis et pulverulentis obtecta, subtus pallidora, ad costa sparsissime septato-pilosa; petioli 0.7—3 cm longi, pilis glanduloso-pilosis crispulis obtecti, dorso striati. Inflorescentia terminalis, racemosa, circa 8 cm longa, rachide eodem indumento ut caulis vestita; bracteae ovato-subulatae, circa 7 mm longae, circa 2.5 mm latae, apice cuspidato-acuminatae, margine albo-ciliatae; pedicelli breves, circa 2 mm longi glanduloso-pilosi. Calyx campanulatus, 4 mm longus, extus pilis septatis glanduloso-pilosus obtectus, intus ad sinum dentium fasciculis pilorum inconspicue ornatus, dentibus lanceolatis circa 2.3 mm longis. Corolla 8 mm longa, extus puberula, intus ad insertionem staminum annulo piloso ornata, basi circa 1 mm lata, sursum sensim latior, ad faucem ad 4 mm lata; labii in sicco purpurascentes, labio superiore longiore circa 2.2 mm longo bilobato, labio inferiore trilobato, lobis subaequalibus rotundis circa 1.8 mm longis. Stamina inclusa, antica 2 circa 3 mm longa paullo excedentia, filamentis complanatis glabris. Stylus filiformis, 8.5 mm longus, corollam superans, apice subaequaliter bifidus. Discus annulatus. Lobi ovarii glabri. Floret in Novembri.

Fukien: Lien-hwa-shan (蓮花山), Nov. 23, 1942, Y. Ling (林英) *728* (Typus HP).

此模式标本經解剖后发現其花柱先端近相等的 2 裂，有的其中有一裂片又复浅 2 裂，有的一花具 2 花柱，子房裂片有 7 枚之多，显然为反常现象，但以其茎、叶柄、叶脉及花萼等处均被具节腺毛，雄蕊內藏，叶基部楔形等特征极易識別，显然系一新种。

2. 四川霜柱 新种 香簡草(云南奕良) 图版四十五

Keiskea szechuanensis C. Y. Wu, sp. nov. Pl. XLV

Species *K. elsholtzioidi* Merr. affinis, sed foliis lanceolatis, petiolis brevibus differt.

Herba erecta. Caulis circa 80 cm altus, superne purpureo-ruber, quadrangularis, leviter sulcatus, inferne in sicco pallide brunneo-flavus, sulcatus, superne sulcis crispule pilosis exceptis glaber. Folia lanceolata vel oblongo-lanceolata, 3.5—14.5 cm longa, 1.2—5.4 cm lata, apice leviter oblique cuspidato-acuminata, basi attenuata vel obtusa, plerumque asymmetrica, margine supra basin acuto-serrata, subcoriacea, supra olivacea glabra vetustiora scabra, subtus pallidiora conspicue reticulata dense impresseque punctata, nervis promo tenue patenerque pubescentibus demum plerumque glabratis; petioli breves, 0.7—1.8 cm longi, dorso tenue crispuleque pubescentes. Racemi terminales vel axillares, 5—7 cm longi; pedunculi 4—10 mm longi; rachides quadrangulares, glanduloso-pubescentes; brac-

teae ovato-subulatae, circa 5 mm longae, leviter rubescentes, margine brevi-ciliatae, ceterum glabrae. Calyx campanulatus, circa 4 mm longus, 3 mm latus, extus puberulus, intus ad sinum dentium fasciculato-villosus, dente posteriore subrotundo apice mucronato, dentibus reliquis 4 lanceolatis subaequalibus circa 2 mm longis. Corolla flavescens, circa 7 mm longa, extus puberula, intus ad insertionem staminum annulo piloso ornata, basi 1.2 mm lata, ad faucem 3.2 mm lata; labium superius rectum, bilobatum, circa 1.5 mm longum; labium inferius trilobatum, lobo medio longiore circa 1.1 mm longo. Stamina exserta, posteriora corollam circa 5 mm superantia, anteriora breviora, filamentis complanatis glabris. Discus oblique annulatus, lobo anteriore tumido. Lobi ovarii glabri. Floret in Augusto-Octobri.

Szechuan: Pao-hing (宝兴), Pu-ki (蒲溪), 2200 m s.m., Aug. 3, 1954, T. P. Tsung (宋滋圃) *39354* (Typus HUS*); Nanchuan (南川), Siao-ho (小河), 1100 m s. m., Oct. 12, 1957, Z. H. Hsiung (熊济华) et Z. L. Chow (周子林) *93934*; loc. ign. (产地不明) Sept. 16, 1930, S. F. Chang (章树枫) *726*.

Yunnan: Yi-liang (彝良), Huo-shau-pa (火烧坝), Sept. 1958, H. W. Li (李锡文) *280*.

本种与香薷状霜柱 *K. elsholtzioides* Merr. 相近，但叶柄短，叶片披針形与之区别。

水珍珠菜属——Dysophylla Bl.

1. 镰叶水珍珠菜 新种

Dysophylla falcata C. Y. Wu, sp. nov.

(Sect. *Chotekia* (Opiz et Corda) Kudo)

Affinis *D. salicifoliae* Dalz ex India, sed foliis falcatis, pedunculis robustis differt.

Herba erecta, rhizomate lignose. Caulis 30—40 cm altus, ramosus, basi sublignescens, toto dense appresso-hirsutus, superne canescens. Folia opposita, anguste falcata, 4.5—6.5 cm longa, 4—7 mm lata, apice acuminata, basi attenuata, supra olivacea, subtus pallidiora, utrinque appresse ad nervos densius sericea, herbacea, margine remote serrata, inferne subintegra, nervis lateralibus subtus valde conspicuis 3—5-paribus. Spicae 4.5—5.5 cm longae, circa 6.5 mm latae, confertae, basi foliis floralibus suffultae. Calyx circa 1.7 mm longus et 1 mm latus, membranaceus, extus pilosus. Corolla rubra, in sicco nigrescens, calyce 1.5-plo longior. Stamina exserta, filamentis in sicco nigrescentibus indumento paullo vestitis. Nuculae ignotae. Floret in Octobri.

Yunnan: Ging-hung (景洪) (Che-li, 车里), 800 m s. m., Oct. 1936, C. W. Wang (王启无) *79441* (Typus HK).

本种与印度产的柳叶水珍珠菜 *D. salicifolia* Dalz. 相近，但叶镰形，花序梗粗壮，与之相异。

2a. 边氏水珍珠菜中間变种 新变种

Dysophylla benthamiana Hance var. **intermedia** C. Y. Wu et Hsuan, var. nov.

A var. *benthamiana* recedit foliis lanceolatis 2—4.5 cm longis, 3—7.5 mm latis, mar-

* HUS = Herb. Univ. Szechuan., Chengtu.

gine sparse serrulatis, glabris; spicis 2—9 cm longis, circa 8 mm latis; floribus majoribus.

Hainan: Ya-hsien (崖县), 1300 m s. m., Feb. 25, 1933, F. C. How (侯宽昭) et N. K. Chun (陈念劬) *70209* (Typus HC); ibidem, S. K. Lau (刘心祈) *6179*.

Kwangsi: Shang-sze (上思), S. C. Chun (陈少卿) *4365*.

与边氏水珍珠菜 *D. benthamiana* Hance var. *benthamiana* 区别为叶披針形,长 2—4.5 厘米,寬 3—7.5 厘米,边緣具疏而小的鋸齿,无毛,穗状花序长 2—9 厘米,寬約 8 毫米,花較大。

2b. **边氏水珍珠菜海南变种** 新变种

Dysophylla benthamiana Hance var. **hainanensis** C. Y. Wu et Hsuan, var. nov.

Dysophylla cruciata auct. non Benth.: Hemsl. ex Forbes et Hemsl. Ind. Fl. Sin. II in Journ. Linn. Soc. Bot. **26**:276. 1890; Dunn in Notes Bot. Gard. Edinburgh **6**:147. 1915.

D. peguana auct. non Prain: Kudo Labiat. Sino-Japon. Prodr. in Mem. Fac. Sci. Agr. Taihoku Univ. **2**:48. 1929.

A var. *benthamiana* recedit planta robustior eramosa vel ramis brevibus, foliis longe linearibus margine revolutis integris, spicis usque ad 7.7 cm longis circa 8 mm latis.

Hainan: Chung-tzao (琼州), Nor-da (那大), Nov. 21, 1921, F. A. McClure *1688* (Typus HUC*); Dan-hsien (儋县), Sept. 2, 1927, W. T. Tseng(曾怀德) *751*; ibidem, Apr. 27, 1928, W. T. Tsang *132*.

与边氏水珍珠菜 *D. benthamiana* Hance var. *benthamiana* 区别为植株高大, 不分枝或具短分枝,叶长綫形,边緣外卷,全緣,穗状花序长至 7.7 厘米, 寬約 8 毫米。

3. **思茅水珍珠菜** 新种

Dysophylla szemacensis C.Y.Wu et Hsuan, sp. nov.

(Sect. *Chotekia* (Opiz et Corda) Kudo)

Species *D. cruciatae* Benth. valde affinis, sed spicis laxioribus, bracteis conspicuis exsertis, foliis margine planis vel leviter revolutis, remote et leviter serratis, caule appresse hispido, inferne subglabro differt.

Herba annua. Caulis adscendens, basi repens radicans, 22—30 cm altus, ramosus, superne appresse hispidus, inferne subglaber, saepe rubescens. Folia 4-verticillata, interdum in ramulis brevibus conferta inde pluri-verticillata ut videtur, linearia, 1.2—3.5 cm longa, 1.8—3.8 cm lata, apice acuminata, basi sessilia, supra olivacea, strigosa, subtus luteo-viridia, glandulis nigris dense obtecta, ad costas dense strigosa, margine sparse leviterque serrata plana vel leviter revoluta dense ciliata. Spicae 1.2—6 cm longae, circa 7 mm latae, non interruptae; bracteae lineari-lanceolatae, corollae subaequilongae, pallide rubropurpurascentes. Calyx campanulatus, circa 1.2 mm longus, 1 mm latus, extus pilosus. Corolla purpurascens, calyce circa duplo longior. Stamina exserta. Nuculae ignotae.

Yunnan: juxta Sze-mao (思茅), 1200 m s. m., Nov. 27, 1933, Y. Tsiang (蔣英) *12713* (Typus HN).

本种与毛茎水珍珠菜 *D. cruciata* Benth. 极相近,但穗状花序較疏, 苞片較明显地伸出,叶边緣平展或微外卷,具疏而浅的鋸齿,茎被平伏糙硬毛,下部近无毛,与之不同。

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* HUC = Herb. Univ. Sunyatsen., Canton.

简冠花属——**Siphocranion** Kudo

1. 大花简冠花长唇变种

Siphocranion macranthum (Hook.f.) C. Y. Wu var. **prainianum** (Lévl.) C. Y. Wu et H. W. Li, comb. nov.

Hancea prainiana Lévl. in Repert. Sp. Nov. Fedde **9**:223. 1911.

Plectranthus prainianus (Lévl.) Dunn in Notes Bot. Gard. Edinburgh **8**:158, 170. 1913; op. cit. **6**:136, 139. 1915; Sun in Contr. Biol. Lab. Sci. Soc. China **7**:240. 1932.

Isodon macranthus (Hook. f.) Kudo var. prainianus (Lévl.) Kudo Labiat. Sino-Japon. Prodr. in Mem. Fac. Sci. Agr. Taihoku Univ. **2**:139. 1929.

貴州：产地不明，辛树帜 *50957*，蔣英 *4745*，*4766*；清镇，邓世纬 *1315*；独山，蔣英 *6529*。

本变种模式标本采自貴州平伐(Pin-fa)(1902 年 8 月 31 日 Cavalerie *362*，秦氏照片 *10862*)，从模式照片看来頂生的总状花序已折断，剩下的一朵花看来明显有一唇片很为伸长，这一唇片在 Dunn 及 Lévl. 均把它看成是上唇，Lévl. 看成是上唇的可能实系指下唇，因为他在原描写中提到“flores....non raro resupinati”(花……常倒扭轉)，而 Dunn 显然錯誤地理解了他的意思。Kudo 将此 Lévl. 的种放在 *Isodon macranthus* (Hook.f.) Kudo 作为一变种，由于他过于強調茎及叶的毛被，而把花序看成紧縮，毛被的过渡情况(短柔毛至具腺短柔毛或长柔毛)在貴州各标本中清彻可見，而紧縮的花序实系錯誤理解，这点从模式照片清楚可見。今检查貴州产的各标本花冠下唇逐漸由与上唇片等长至很为伸长。Dunn 在区分 *Plectranthus macranthus* (今組合为 *Siphocranion*)及 *Plectranthus prainianus* (Lévl.) Dunn 时亦強調唇片的长度，但 Dunn 将 *Plectranthus prainianus* (Lévl.) Dunn 的上下唇顛倒，乃因錯誤地理解了 Lévl. 的意思。这样看来，本变种的主要特征是花冠下唇明显伸长(长約为上唇三倍)，其次是茎及叶的多毛性質。

汉史草属——**Hanceola** Kudo

1. 汉史草系　新系

Ser. 1. **Sinenses** C. Y. Wu et H. W. Li, ser. nov.

Corolla major, deorsum plus minusve arcuato-recurvata; stamina inclusa. Rhizoma repens crassum vel non crassum, ad nodos non lignoso-tuberiferum.

Typus seriei: *H. sinensis* (Hemsl.) Kudo (汉史草)

Species 2: *H. sinensis* (Hemsl.) Kudo et *H. cordiovata* Sun (心卵叶汉史草)。

花冠較大，多少弧曲状下弯；雄蕊內藏。匍匐茎肥大或否，节上不具木質块茎。

2. 块茎汉史草系　新系

Ser. 2. **Tuberiferae** C. Y. Wu et H. W. Li, ser. nov.

Corolla gracilis, angustior et stricta: stamina inclusa, Rhizoma repens ad nodos lignoso-tuberiferum.

Typus seriei: *H. tuberifera* Sun (块茎汉史草)

Species 2: *H. tuberifera* Sun et *H. flexuosa* C. Y. Wu et H. W. Li (曲折汉史草)。

花冠纤弱，狭而直伸；雄蕊内藏。匍匐根茎于节上具木质块茎。

1. **曲折汉史草** 新种

Hanceola flexuosa C. Y. Wu et H. W. Li, sp. nov.

Planta rhizomate tuberifero praedita *H. tuberiferae* Sun affinis sed planta multo alta, caulibus flexuosis semper numerosis, corollis brevioribus labiis subaequalibus, corollae tubo subaequale intus subglabrescente differt.

Herba perennis, rhizophora; rhizomate oblique repente, ad nodos lignoso-tuberifero (tuberis 0.5—2 cm in diametro), ad nodos vel interdum ad internodias radicibus fibrosis dense radicante. Caules solitarii vel numerosi, ex nodis rhizomata emittentes, adscendentes, teneri, flexuosi, 30—60 cm longi, obtuse quadrangulares, quadrisulcati, densissime pulverulento-puberuli, basi defoliati, prope basin ad nodos et internodia pauca radices fibrosas radicantes, eramosi vel interdum multo ramosi. Folia lanceolata, raro ovata, cum petiolis 2.5—15 (saepissime 10) cm longa, 1—4.5 (saepissime 3.5) cm lata, acuminata vel raro acuta, basi cuneato-decurrentia, margine irregulariter grosse calloso-serrata vel duplicato-serrata, herbacea, supra viridia sparsissime septato-hispido-strigosa ad nervos pulverulento-puberula, subtus pallidiora, nervis lateralibus 3—4-jugis supra non subtus plus minusve prominentibus; petioli 0.5—4 cm longi, inferiores longiores, superiores breviores, angustissime alati, subcomplanati, pulverulento-puberuli. Racemi terminales, graciles, 10—20 cm longi, laxiflori, rachidibus dense glanduloso-pubescentibus; bracteae lanceolatae ad subulatae, sursum diminutae, mediores 2 mm longae, ciliatae. Pedunculi 1—2.5 mm longi, ut pedicelli glanduloso-pubescentes; pedicelli 3.5—5 mm longi, bracteolis squamiformibus minutis suffulti. Calyx campanulatus, minutus, cum dentibus circa 4 mm longus, extus glanduloso-pubescens, intus glaber, inconspicue 10-nervius, 5-dentatus, subbilabiatus, labio superiore 3-dentato, dentibus triangularibus apice subulato-acutis, dente medio majore, labio inferiore 2-dentato, dentibus triangulari-lanceolatis apice subulato-acutis. Corolla purpurea, 2.1 cm longa; tubo subcylindrico, 1.8 cm longo, basi 1.5 mm in diametro, sursum sensim dilatato, ad faucem circa 4 mm in diametro, extus minute pubescente, intus subglabrescente; limbo 2-labiato, labio superiore 3 mm longo, 2-lobato, lobis rotundatis, labio inferiore 4 mm longo, 3-lobato, lobo medio paullo longiore, lobis lateralibus 2 mm latis. Stamina 4, declinata, antica 2 longiora, omnia labia non superantia, filamentis filiformibus complanatis glabris, antheris ellipsoideis 2-locularibus, loculis confluentibus. Stylus filiformis, gracilis, corollam aequans vel paullo superans, apice aequaliter bifidus. Discus antice in nectarium dactyliformem ovario longiore productus. Ovarium glabrum. Floret in Septembri-Novembri.

Kwangsi: Ping-nan (平南), Nov. 9, 1948, Z. S. Chung (钟济新) *84685* (Typus HP); Hing-an (兴安), Sept. 21, 1954, Hing-an Expeditio (兴安采集队) *121*; ibidem, Oct. 4, 1954, Hing-an Expeditio *293*.

本种以其具块茎的根茎一点近块茎汉史草 *H. tuberifera* Sun，但植株高大，茎多曲折，常多数，花冠较短，上下唇片近等长，花冠筒近等大，内面无毛可識別。

3. **出蕊汉史草系**　新系

Ser. 3. **Exsertae** C. Y. Wu et H. W. Li, ser. nov.

Stamina omnia exserta.

Typus seriei: *H. exserta* Sun（出蕊汉史草）

Species 2: *H. exserta* Sun et *H. cavaleriei*（Lévl.）Kudo（贵州汉史草）。

雄蕊全伸出花冠。

鞘蕊花属——Coleus Lour.

1. **黄鞘蕊花**　新种

Coleus xanthanthus C. Y. Wu et Y. C. Huang, sp. nov.

Species fruticulis; ramulis, foliis et calycibus luteo-fusco-tomentosis; labii superioris calycini lobis ovatis acutis, lobo medio praecipue majore ab omnibus speciebus sinensibus adhuc cognitis distinguenda.

Fruticulus circa 0.5 m altus. Caulis inferne subteres, atro-cinereus, tuberculato-lenticellatus, glaber, superne ut ramuli subquadrangularis, fuscus, dense luteo-fusco-tomentosus. Folia ovata, 3—5 cm longa, 1.5—2.4 cm lata, apice breviter acuminata, basi rotundata, margine crenata, utrinque dense pubescentia, nervis lateralibus 6—(7)-paribus subtus conspicuis, petiolis 4—10 mm longis, dense luteo-fusco-tomentosis; folia floralia cum foliis caulinis conformia, minora, brevissime petiolata. Paniculae terminales et laterales; bracteae ovatae, concavae, caudato-mucronatae, sparse puberulae, glanduliferae, ciliatae. Flores flavi, pedicellis 1—2 mm longis dense luteo-fusco-tomentosis. Calyx campanulatus, sub anthesi 2.5 mm longus, tempore fructu ampliatus, ad 5 mm longus, extus luteo-fusco-tomentosus, 2-labiatus; labium superius 3-lobatum, lobo medio praecipue majore intus pubescente ovato apice acuto, lobis lateralibus brevioribus ovatis acutis, dimidum lobi medii aequantibus; labium inferiusm 2-lobatum, lobis lanceolatis, labii superior lobis lateralibus subaequilongis. Corolla extus sparse pubescens, circa 1 mm longa; tubo ad faucem ampliato; limbo 2-labiato, labio superiore 4-lobulato, lobulis brevioribus inaequalibus, labio inferiore elongato elliptico cymbiforme. Stamina 4, inclusa, filamentis infra medium in tubum connatis. Nuculae ovoideae, compressae, brunneae, laeves. Floret in Septembri.

Yunnan: Mon-lun (勐仑), 1400 m s. m., Sept. 15, 1959, S. K. Pei (裴盛基) *59-10138* (Typus HK).

由于本种是小灌木；枝、叶及花萼被黄棕色绒毛；萼的上唇裂片卵圆形，急尖，中裂片特大，与已知国产种极易区别。

直管花属——Orthosiphon Benth.

1. **深红直管花海南变种**　新变种

Orthosiphon rubicundus Benth. var. **hainanensis** Sun, var. nov.

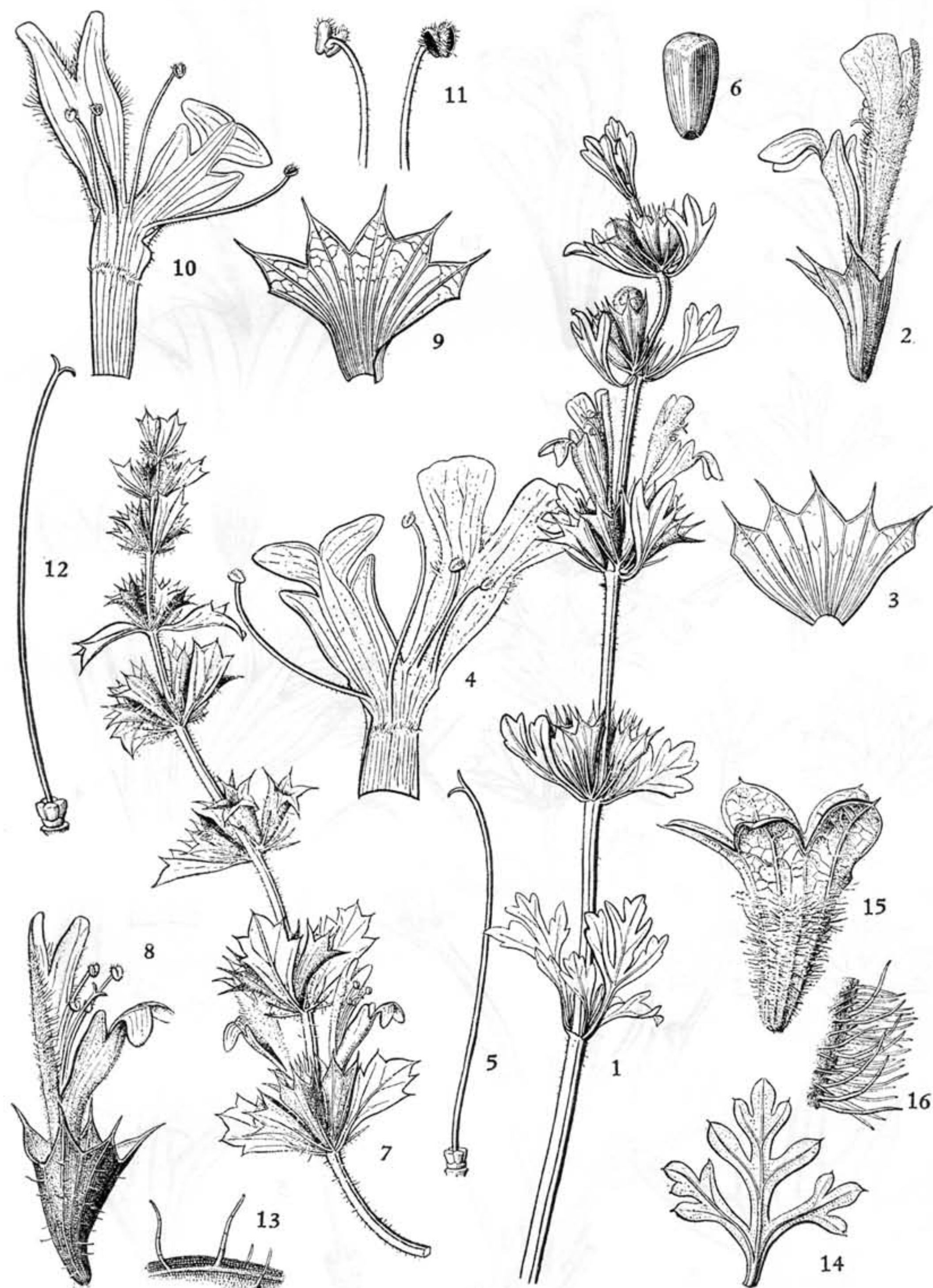
Orthosiphon rubicundus auct. non Benth.: Dunn in Notes Bot. Gard. Edinburgh **6**:

135. 1915, quoad specimen hainanense; Kudo Labiat. Sino-Japon. Prodr. in Mem. Fac. Sci. Agr. Taihoku Univ. 2:116. 1929 p.p.

A var. *rubicundo* recedit foliis oblongo-lanceolatis, papyraceis; corollae labio superiore 4-lobato.

Hainan: Ya-hsien (崖县), Aug. 7—26, 1932, S. K. Lau (刘心祈) *365* (Typus HN); Tong-fang (东方), Aug. 19, 1936, S. K. Lau *27692*.

与深紅直管花 *O. rubicundus* Benth. var. *rubicundus* 区别为叶长圓状披針形，薄紙質;花冠上唇4圆裂。



1—6.**阿勒泰兔唇花　Lagochilus altaicus** C. Y. Wu et Heuan

1.花枝(原大)；　2.花×2；　3.萼展开，内面观×2；　4.花冠纵剖面及雄蕊×2；　5.雌蕊×3；　6.小坚果×6；
7—13.**短刺兔唇花　Lagochilus brachyacanthus** C. Y. Wu et Hsuan；　7.花枝(原大)；　8.花×2；
9.萼开展，内面观×2；　10.花冠纵剖及雄蕊×2；　11.雄蕊上部×5；　12.雌蕊×3；　13.萼外疏刚毛×10；　14—16.**宽齿兔唇花　Lagochilus iliensis** C. Y. Wu et Hsuan；　14.叶(原大)；　15.花萼×5；
16.花萼上毛被×10；(绘图标本：1—6新疆，八一农学院 *22363*；　7—13新疆，无采集人 *276*；　14—16 新疆，新疆农学院 *100*，曾孝濂绘。)



1—5. **毛节兔唇花 Lagochilus lanatonodus** C. Y. Wu et Hsuan: 1. 植株(原大)； 2. 花×2； 3. 萼展开, 内面观×2； 4. 花冠纵剖及雄蕊×2； 5. 雌蕊×3。
6—7. **大花兔唇花 Lagochilus grandiflorus** C. Y. Wu et Hsuan: 6. 花×2； 7. 叶(原大)。
8—9. **斜喉兔唇花 Lagochilus obliquus** C. Y. Wu et Hsuan: 8. 花×2； 9. 叶(原大)。
10—11. **仁昌兔唇花 Lagochilus chingii** C. Y. Wu et Hsuan: 10. 花×2； 11. 叶(原大)。
(绘图标本： 1—5 新疆，李安仁、朱家柟 *6216*； 6—7新疆，八一农学院 *26710*； 8—9 新疆，秦



长叶鈎子 **Rostrinucula sinensis** (Hemsl.) C. Y. Wu

1. 枝条上部，具顶生于茎端及枝条上的穗状花(自然大)；　2. 花外面观×2；　3. 花萼展开内面观×8；　4. 花冠展开内面观×8；　5. 雄蕊花絲基部毛盘状突起的毛被×20；　6. 花萼，花冠外面，茎叶及子房毛被×20；　7. 苞片外面观×4。(绘图标本：湖南，钟补勤 *1426*，刘春荣绘。)



腺毛霜柱 Keiskea glandulosa C. Y. Wu

1.花枝(原大)； 2.花 ×6； 3.萼展开,内面观，×6； 4.花冠纵剖及雄蕊×5； 5.雌蕊×6； 6.子房及花盘×6； 7.茎及花序轴的节卷曲长柔毛×15。(绘图标本：福建,林 728，曾孝濂绘。)



四川霜柱 **Keiskea szechuanensis** C. Y. Wu

1.花枝(原大); 2.花×3; 3.花萼展开,内面观×4; 4.花冠纵部及雄蕊×4; 5.雌蕊×10; 6.苞片×6。(绘图标本: 四川宋滋圃 *39354*,曾孝濂绘。)